

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: P476482

Luminaire Tested: **IFLD-S-SA3D-727-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476482
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

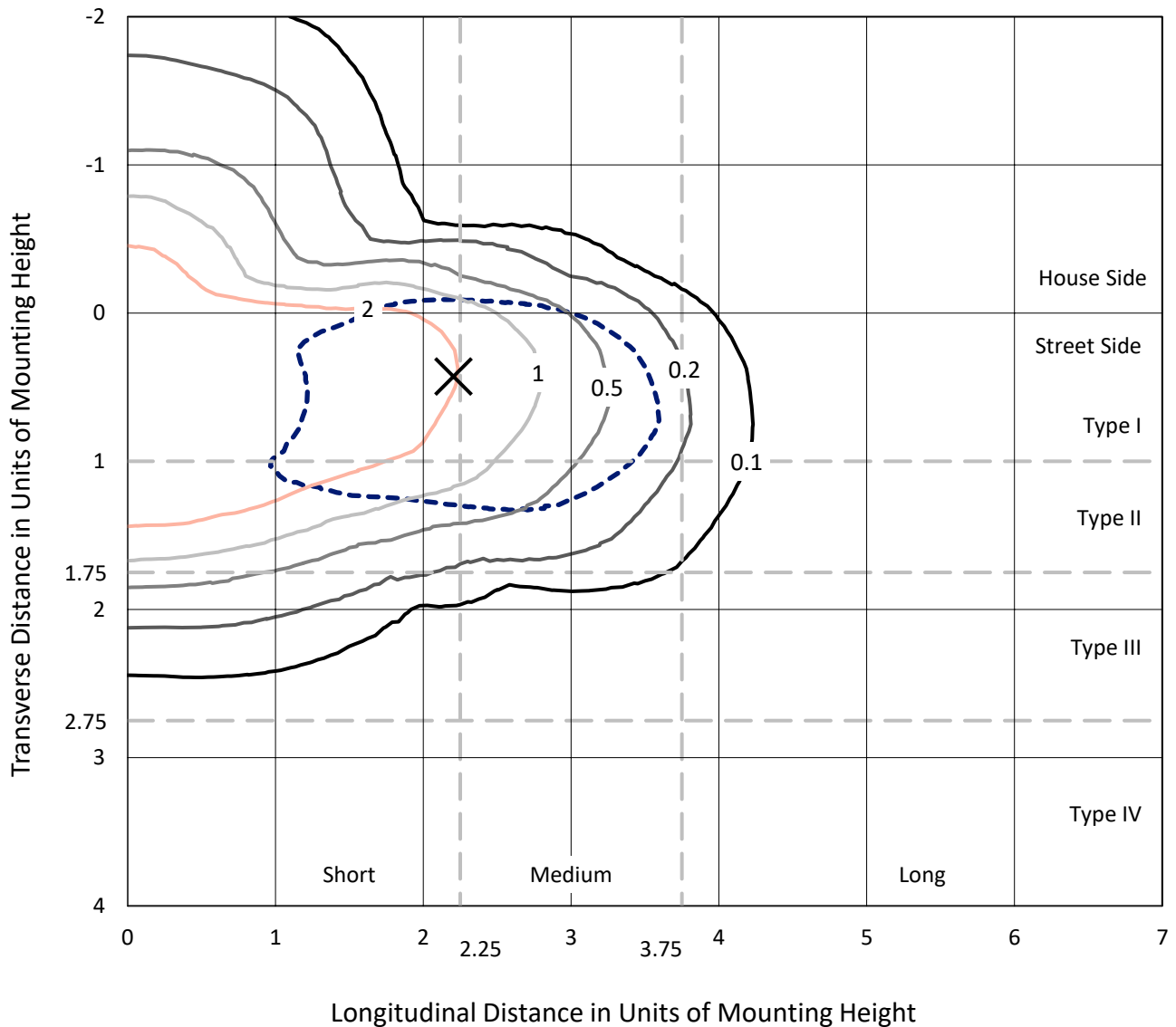
Lumens per Lamp: N/A
Luminaire Lumens: 19468.1 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
Input Voltage (V): 120
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: 24 FT

REPORT NUMBER: P476482
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

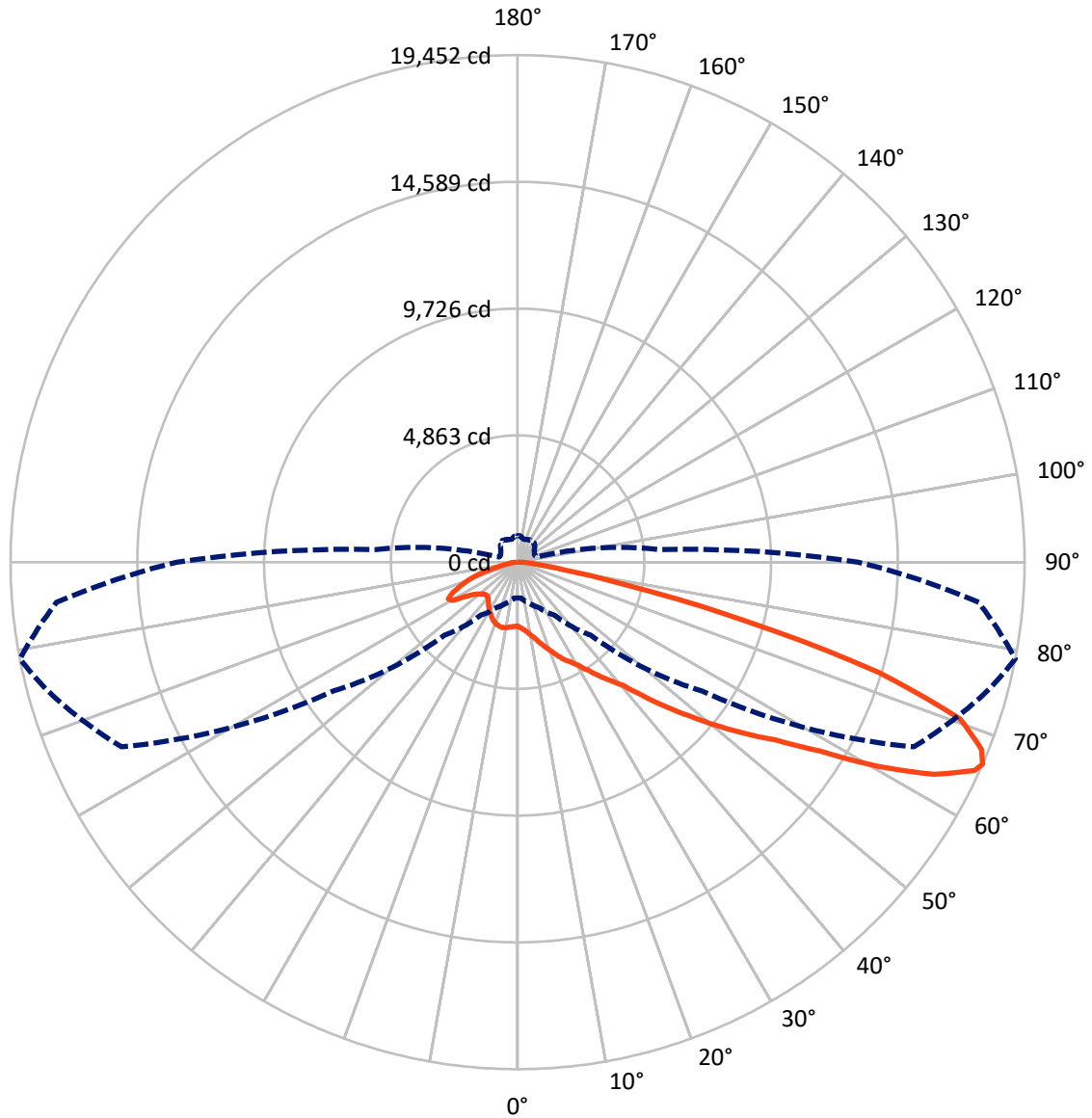
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

REPORT NUMBER: P476482
CATALOG NUMBER: IFLD-S-SA3D-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476482

CATALOG NUMBER: IFLD-S-SA3D-727-U-T2

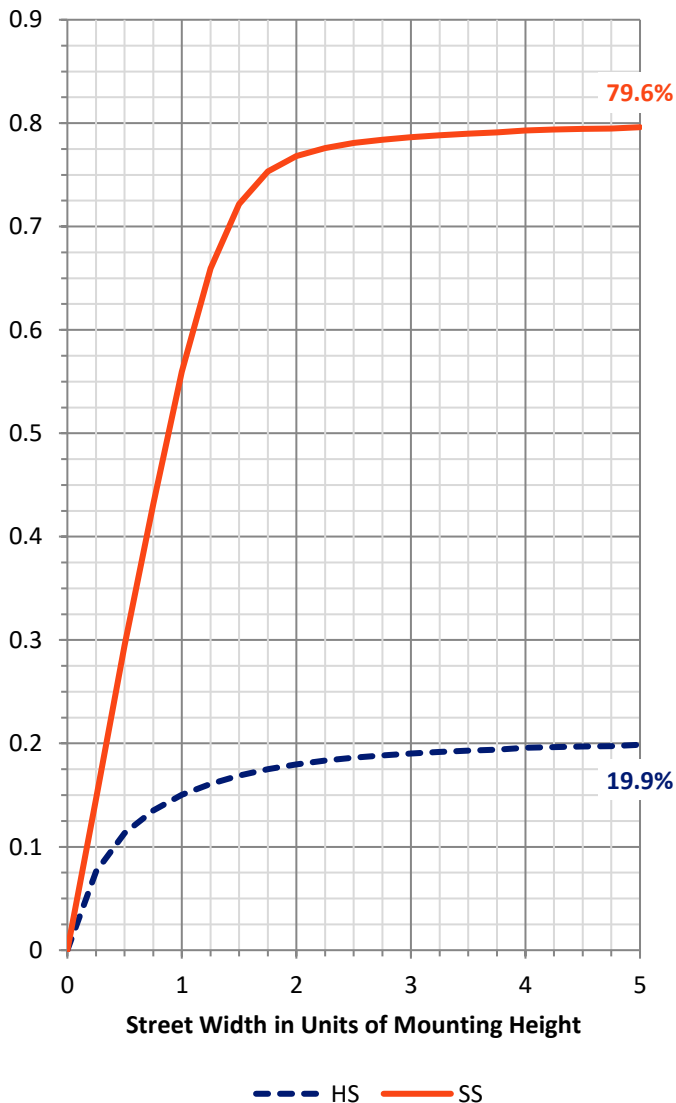
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3931.3	0.0	3931.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15536.8	0.0	15536.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	19468.1	0.0	19468.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.2
10°-20°	746.4	3.8
20°-30°	1281.3	6.6
30°-40°	1979.3	10.2
40°-50°	3170.3	16.3
50°-60°	4733.5	24.3
60°-70°	4863.7	25.0
70°-80°	2156.0	11.1
80°-90°	295.8	1.5
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°	19468.1	100.0
0°-180°	19468.1	100.0





REPORT NUMBER: P476482
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2614.6	2616.7	2616.7	2608.2	2610.3	2616.7	2593.2	2541.8	2541.8	2533.2	2518.2
5°	2775.2	2764.5	2749.5	2751.7	2743.1	2743.1	2717.4	2668.1	2625.3	2608.2	2563.2
7.5°	2796.6	2807.3	2805.2	2830.9	2843.7	2843.7	2856.6	2815.9	2751.7	2711.0	2666.0
10°	2839.4	2811.6	2809.5	2869.4	2888.7	2933.7	2985.1	2963.6	2910.1	2852.3	2792.3
12.5°	2865.1	2882.3	2882.3	2912.3	2957.2	3023.6	3113.5	3154.2	3070.7	3010.8	2918.7
15°	2903.7	2880.1	2948.7	2974.4	3060.0	3107.1	3235.6	3340.5	3284.9	3212.0	3066.4
17.5°	2920.8	2905.8	2944.4	2991.5	3137.1	3207.8	3364.1	3509.7	3462.6	3415.5	3265.6
20°	3008.6	3006.5	3023.6	3062.1	3167.1	3306.3	3501.1	3702.4	3719.5	3633.9	3430.5
22.5°	3222.8	3194.9	3194.9	3179.9	3224.9	3368.4	3631.8	3910.1	3987.2	3886.6	3616.8
25°	3419.8	3458.3	3434.7	3366.2	3349.1	3424.0	3726.0	4130.7	4233.5	4139.3	3869.4
27.5°	3672.4	3685.3	3726.0	3633.9	3516.1	3539.7	3828.8	4254.9	4466.9	4340.5	4012.9
30°	4036.5	4012.9	4004.3	3901.6	3747.4	3715.3	3946.5	4436.9	4773.1	4595.4	4182.1
32.5°	4282.7	4340.5	4338.4	4197.1	4010.8	3940.1	4092.1	4608.2	5100.7	4935.8	4494.7
35°	4771.0	4830.9	4783.8	4576.1	4357.7	4216.3	4302.0	4830.9	5475.5	5347.0	4760.2
37.5°	5394.1	5535.4	5434.8	5051.5	4743.1	4588.9	4593.2	5072.9	5858.8	5753.8	5045.1
40°	5824.5	6015.1	5875.9	5516.2	5188.5	5042.9	4985.1	5359.8	6317.0	6205.7	5490.5
42.5°	6357.7	6516.2	6443.4	6087.9	5704.6	5580.4	5464.8	5839.5	7017.2	6965.9	6062.2
45°	6940.2	7015.1	6991.5	6766.7	6340.6	6297.7	6042.9	6471.2	7841.7	7863.1	6777.4
47.5°	7481.9	7522.6	7567.6	7404.8	7139.3	7175.7	6708.9	7147.9	8642.5	8783.9	7574.0
50°	7621.1	7760.3	7865.2	7974.4	8032.3	8278.5	7443.4	7978.7	9563.3	9837.4	8460.5
52.5°	7479.8	7469.1	7788.1	8130.8	8708.9	9225.0	8443.4	9010.9	10377.0	10918.8	9272.1
55°	6837.4	6816.0	7329.9	7783.9	8912.4	9751.8	9871.7	10385.6	11359.9	12064.4	10370.6
57.5°	5713.2	5580.4	6141.4	6886.6	8471.2	9809.6	11306.4	12426.3	12871.7	13674.7	12047.3
60°	3839.5	3783.8	4321.3	5209.9	6878.1	8989.4	12165.1	14981.0	15002.4	15906.0	14649.1
62.5°	2364.1	2374.8	2719.5	3385.5	4815.9	7126.5	11794.6	17021.7	17026.0	17931.8	16790.4
65°	1546.1	1552.5	1830.9	2199.2	3008.6	4833.1	9753.9	17182.3	18432.9	19274.4	17771.2
66°	1376.9	1379.0	1618.9	1918.7	2492.5	3955.1	8614.7	16764.7	18749.8	19452.1	17758.3
67.5°	1160.6	1188.5	1381.2	1612.4	1944.4	2841.6	6835.2	15557.0	18587.0	19203.7	17355.7
70°	907.9	922.9	1075.0	1310.5	1458.3	1644.6	4062.2	12681.2	17013.1	18013.1	15891.1
72.5°	728.1	740.9	856.5	1064.3	1184.2	1083.5	2212.0	9201.4	13439.2	14505.6	12499.1
75°	614.6	616.7	672.4	837.3	974.3	813.7	1177.7	5905.9	8623.3	9120.1	7657.5
77.5°	496.8	505.4	543.9	638.1	783.7	640.3	702.4	3308.4	4329.8	4366.2	3539.7
80°	404.7	409.0	432.6	464.7	597.4	473.2	475.4	1614.6	1856.6	1813.7	1439.0
82.5°	319.1	323.3	351.2	344.8	439.0	338.3	295.5	777.3	854.4	837.3	661.7
85°	179.9	179.9	276.2	276.2	278.4	214.1	179.9	366.2	451.8	421.8	310.5
87.5°	57.8	60.0	83.5	87.8	139.2	96.4	87.8	137.0	214.1	188.4	111.4
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: P476482
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2509.7	2475.4	2460.4	2411.2	2398.3	2366.2	2351.2	2331.9	2325.5	2297.7	2323.4
5°	2528.9	2518.2	2458.3	2396.2	2349.1	2327.7	2295.5	2252.7	2248.4	2209.9	2205.6
7.5°	2610.3	2573.9	2469.0	2402.6	2308.4	2254.9	2184.2	2162.8	2134.9	2122.1	2149.9
10°	2736.7	2644.6	2488.3	2321.2	2205.6	2141.4	2090.0	2075.0	2077.1	2068.6	2055.7
12.5°	2826.6	2738.8	2456.1	2252.7	2102.8	2040.7	2036.4	2051.4	2075.0	2064.3	2079.3
15°	2955.1	2790.2	2432.6	2139.2	2019.3	2002.2	2000.0	2045.0	2042.9	2042.9	2040.7
17.5°	3075.0	2841.6	2346.9	2040.7	1931.5	1944.4	1959.3	1957.2	1978.6	1987.2	2002.2
20°	3227.0	2901.5	2227.0	1942.2	1865.1	1860.8	1858.7	1860.8	1882.3	1895.1	1884.4
22.5°	3359.8	2914.4	2126.4	1848.0	1785.9	1768.8	1740.9	1768.8	1758.1	1762.3	1775.2
25°	3475.4	2916.5	1982.9	1777.3	1706.7	1668.1	1646.7	1644.6	1625.3	1623.2	1623.2
27.5°	3571.8	2843.7	1856.6	1678.8	1612.4	1576.0	1573.9	1550.3	1501.1	1469.0	1473.3
30°	3646.7	2788.1	1768.8	1593.2	1528.9	1522.5	1503.2	1449.7	1385.5	1344.8	1344.8
32.5°	3779.5	2676.7	1648.8	1505.4	1473.3	1464.7	1419.7	1372.6	1312.7	1274.1	1267.7
35°	3878.0	2573.9	1569.6	1430.4	1415.4	1398.3	1359.8	1308.4	1291.2	1282.7	1289.1
37.5°	3989.4	2458.3	1473.3	1366.2	1381.2	1349.1	1304.1	1280.5	1340.5	1325.5	1331.9
40°	4167.1	2376.9	1379.0	1327.6	1342.6	1306.2	1248.4	1239.8	1314.8	1261.3	1248.4
42.5°	4492.6	2374.8	1321.2	1269.8	1280.5	1252.7	1201.3	1197.0	1227.0	1162.8	1143.5
45°	4897.3	2449.7	1278.4	1227.0	1218.4	1214.2	1197.0	1177.7	1152.1	1068.5	1047.1
47.5°	5381.2	2571.8	1269.8	1162.8	1173.5	1209.9	1188.5	1139.2	1072.8	1019.3	1008.6
50°	5968.0	2824.5	1248.4	1115.7	1134.9	1192.7	1175.6	1107.1	1047.1	1012.9	1006.4
52.5°	6616.8	3143.5	1220.6	1042.8	1085.7	1177.7	1186.3	1122.1	1034.3	1004.3	1000.0
55°	7381.3	3614.6	1188.5	963.6	1027.9	1162.8	1186.3	1079.2	1017.1	1017.1	1012.9
57.5°	8890.9	4462.6	1122.1	890.8	976.5	1134.9	1152.1	1081.4	1019.3	1019.3	1010.7
60°	11105.1	5786.0	995.7	835.1	927.2	1096.4	1126.4	1049.3	995.7	1008.6	1006.4
62.5°	12837.5	6188.5	888.7	781.6	878.0	1025.7	1092.1	1015.0	967.9	1015.0	1019.3
65°	13207.9	5781.7	779.5	723.8	809.4	957.2	1042.8	965.8	927.2	1019.3	1023.6
66°	13075.2	5464.8	740.9	706.6	779.5	922.9	1012.9	948.6	905.8	1015.0	1017.1
67.5°	12484.1	4989.4	698.1	670.2	738.8	873.7	978.6	925.1	871.5	1002.2	982.9
70°	11199.3	4231.3	625.3	606.0	681.0	792.3	899.4	865.1	818.0	922.9	888.7
72.5°	8625.4	3381.2	548.2	550.3	614.6	708.8	820.1	796.6	755.9	809.4	788.0
75°	5252.8	2160.6	477.5	481.8	535.3	629.6	745.2	728.1	678.8	708.8	698.1
77.5°	2327.7	1070.7	402.6	411.1	454.0	554.6	648.8	621.0	569.6	576.0	571.7
80°	903.7	507.5	327.6	338.3	366.2	443.3	537.5	511.8	466.8	458.3	454.0
82.5°	434.7	282.7	252.7	257.0	267.7	353.3	462.5	430.4	370.5	331.9	331.9
85°	218.4	175.6	177.7	162.7	177.7	239.8	312.6	261.2	216.3	192.7	197.0
87.5°	87.8	87.8	87.8	74.9	79.2	113.5	145.6	98.5	89.9	53.5	53.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)