

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: P637290

Luminaire Tested: **IFLD-S-SA2C-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11464.5 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

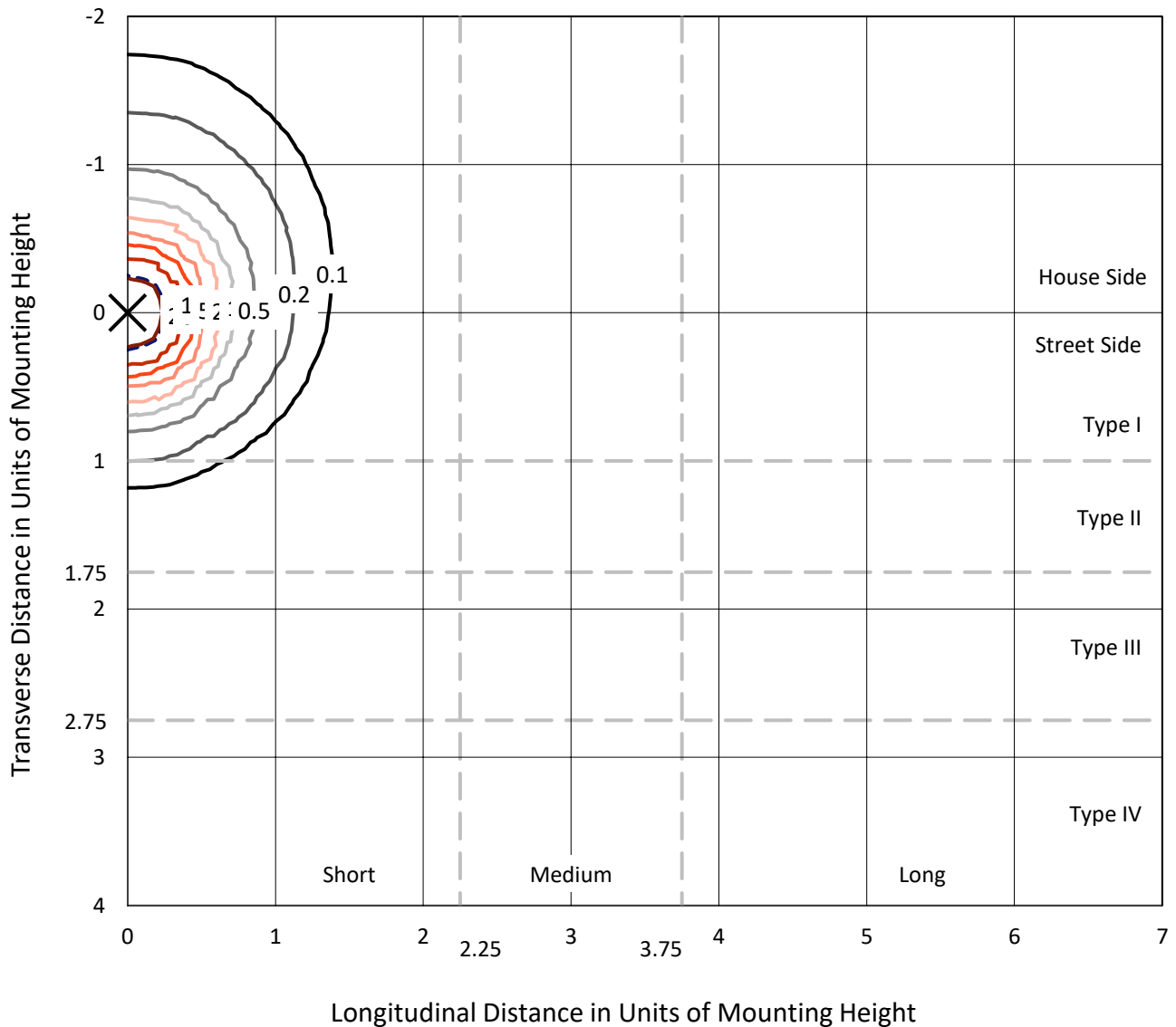
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

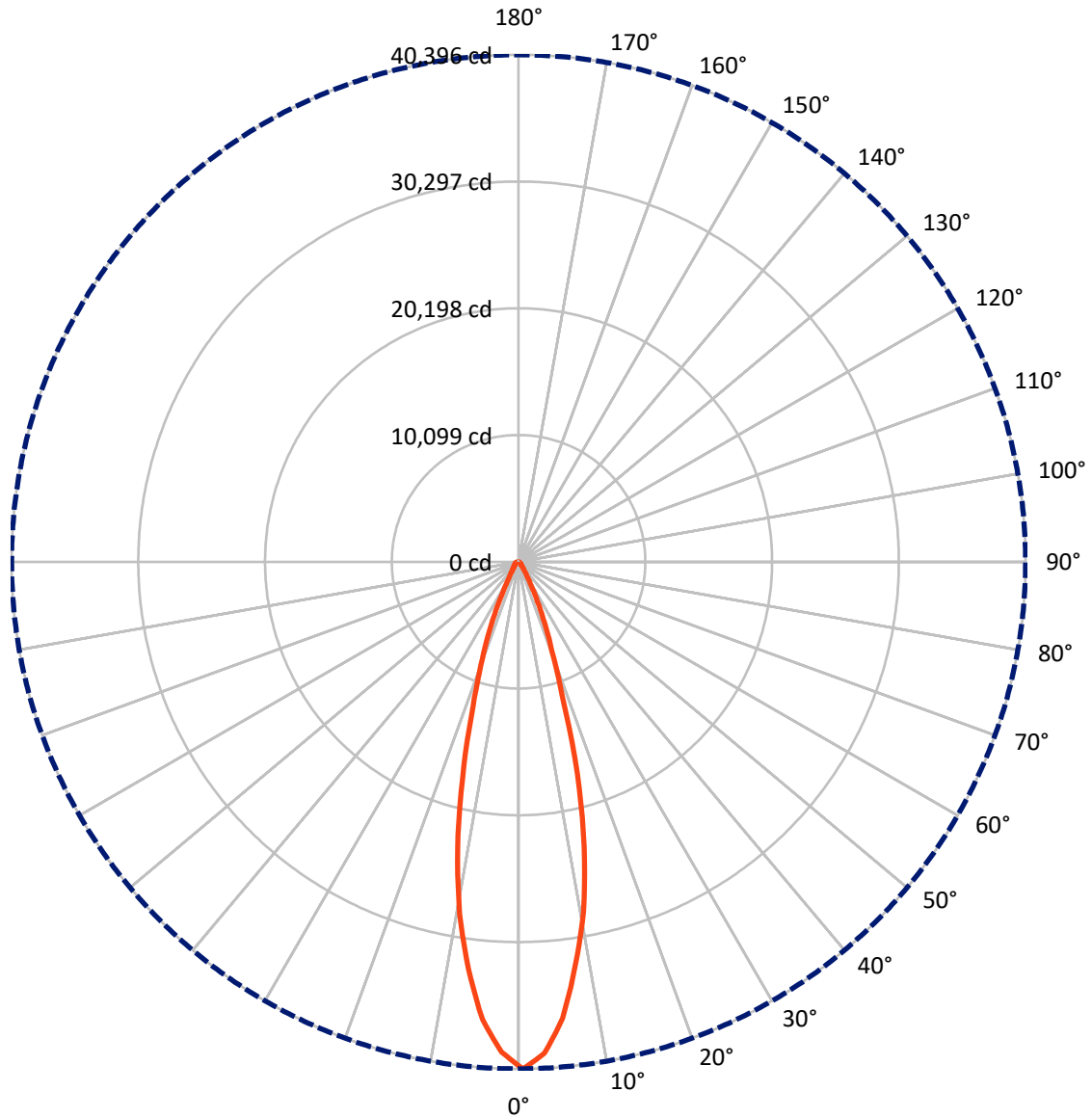
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 101 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6044.8	0.0	6044.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5419.6	0.0	5419.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	11464.5	0.0	11464.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3260.3	28.4
10°-20°	4937.7	43.1
20°-30°	2083.7	18.2
30°-40°	543.5	4.7
40°-50°	274.9	2.4
50°-60°	179.7	1.6
60°-70°	107.6	0.9
70°-80°	56.6	0.5
80°-90°	20.5	0.2
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°	11464.5	100.0
0°-180°	11464.5	100.0

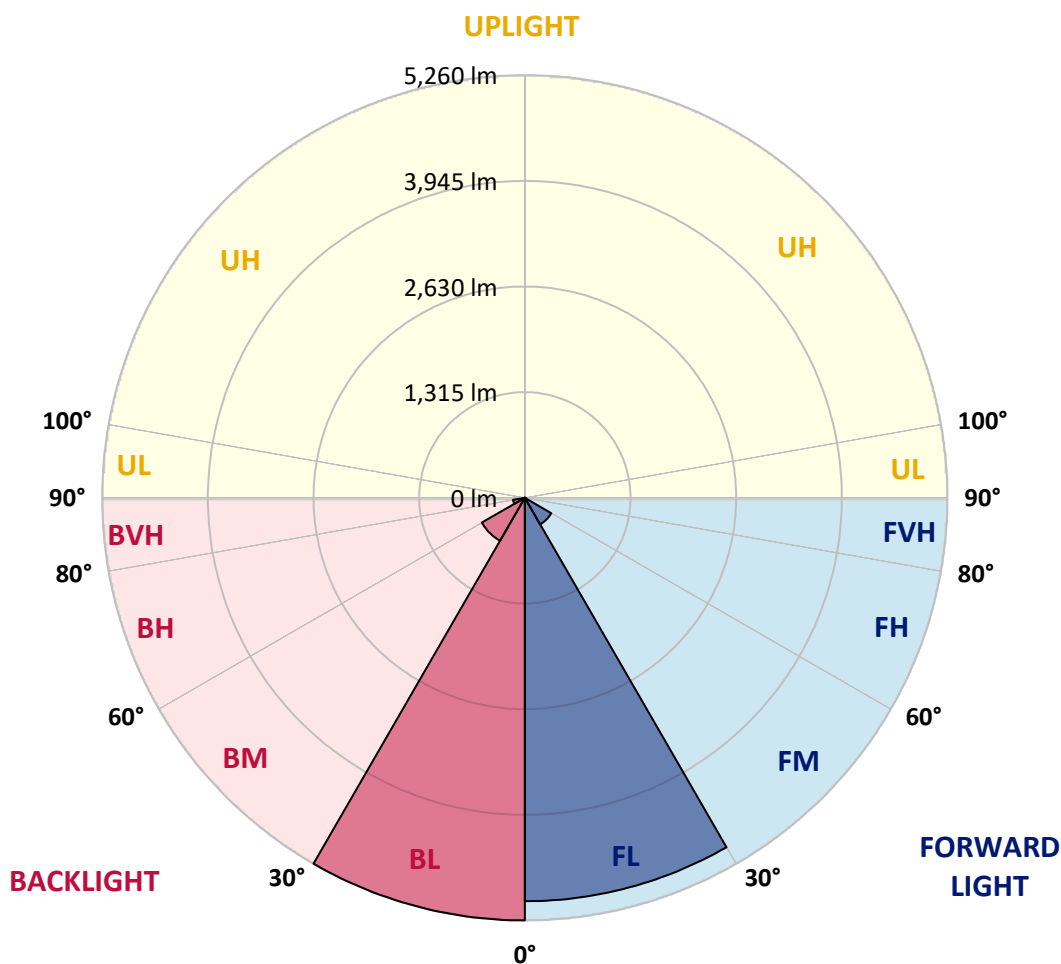


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5021.4	43.8			
FM (30°-60°)	380.3	3.3			
FH (60°-80°)	15.5	0.1			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	5260.4	45.9	B5		
BM (30°-60°)	617.7	5.4	B1/1000		
BH (60°-80°)	148.8	1.3	B1/500		G0/660
BVH (80°-90°)	18.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9
2.5°	39219.1	39241.0	39159.9	39335.0	39198.5	39564.2	39382.7	39665.9	39570.6	39729.0
5°	36541.2	36505.1	36482.0	36753.6	36675.1	37067.8	36816.7	36734.3	36989.2	36942.9
7.5°	32497.2	32592.5	32538.4	32609.2	32649.1	33097.2	33238.8	33128.1	33131.9	33196.3
10°	28351.5	28211.2	28011.7	28144.3	28424.9	28620.6	28542.1	28704.3	28668.3	28821.5
12.5°	23250.6	23361.3	23249.3	23130.8	23621.4	23567.3	23703.8	23792.6	23569.9	24065.5
15°	17513.6	17571.5	17708.0	17699.0	18076.2	18152.1	18134.1	18228.1	18054.3	18136.7
17.5°	11251.3	11447.0	11813.9	12434.5	13132.3	13213.4	13192.8	13115.5	13031.8	12939.2
20°	7557.5	7536.9	7669.5	7851.0	9295.6	9678.0	9666.4	9424.3	9074.1	9007.2
22.5°	5294.1	5332.7	5314.7	5495.0	5793.6	6848.1	6718.1	6472.2	6357.6	6282.9
25°	3482.6	3468.5	3558.6	3612.7	3868.9	3997.6	4453.4	4362.0	4185.6	4204.9
27.5°	2123.1	2141.1	2174.5	2220.9	2402.4	2361.2	2621.3	2656.1	2599.4	2538.9
30°	1302.9	1315.8	1342.8	1376.3	1439.4	1394.3	1466.4	1591.3	1570.7	1528.2
32.5°	884.5	885.8	905.1	918.0	910.2	867.8	890.9	1009.4	1012.0	1008.1
35°	636.0	636.0	654.0	664.3	642.5	607.7	611.6	684.9	717.1	723.6
37.5°	439.0	440.3	471.2	502.1	477.7	468.6	453.2	502.1	553.6	561.3
40°	333.5	332.2	347.6	370.8	373.4	356.6	361.8	392.7	445.5	451.9
42.5°	270.4	271.7	279.4	276.8	278.1	300.0	307.7	321.9	370.8	382.4
45°	227.9	229.2	233.0	220.2	215.0	248.5	258.8	266.5	307.7	321.9
47.5°	188.0	190.5	194.4	180.2	177.7	199.6	217.6	225.3	261.4	276.8
50°	135.2	137.8	151.9	144.2	151.9	157.1	181.5	193.1	217.6	238.2
52.5°	97.8	100.4	104.3	105.6	124.9	127.5	145.5	163.5	175.1	198.3
55°	77.2	79.8	77.2	74.7	91.4	105.6	112.0	131.3	140.3	167.4
57.5°	43.8	46.3	50.2	57.9	60.5	81.1	87.5	104.3	112.0	137.8
60°	7.7	9.0	14.2	34.8	42.5	51.5	65.7	79.8	90.1	108.1
62.5°	1.3	1.3	2.6	7.7	24.5	36.0	47.6	56.6	65.7	82.4
65°	0.0	0.0	1.3	2.6	6.4	20.6	25.7	33.5	45.1	59.2
67.5°	0.0	0.0	1.3	2.6	3.9	7.7	11.6	20.6	25.7	39.9
70°	0.0	0.0	1.3	2.6	3.9	5.1	6.4	9.0	15.4	24.5
72.5°	0.0	0.0	1.3	2.6	3.9	5.1	6.4	7.7	7.7	15.4
75°	0.0	0.0	1.3	2.6	3.9	6.4	7.7	7.7	6.4	6.4
77.5°	0.0	0.0	1.3	2.6	5.1	7.7	9.0	7.7	5.1	5.1
80°	0.0	0.0	2.6	3.9	6.4	9.0	11.6	9.0	5.1	2.6
82.5°	0.0	0.0	2.6	5.1	6.4	10.3	14.2	11.6	5.1	2.6
85°	0.0	0.0	1.3	3.9	7.7	10.3	14.2	10.3	5.1	1.3
87.5°	0.0	0.0	1.3	1.3	2.6	3.9	7.7	6.4	2.6	1.3
90°	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
40395.9	0°	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9	40395.9
39429.0	2.5°	39655.6	39861.6	39904.1	39847.4	39929.8	39781.8	39668.5	39374.9	39198.5
36928.7	5°	37166.9	37136.0	37351.0	37421.8	37412.8	37299.5	37141.2	36963.5	36791.0
33071.4	7.5°	33277.4	33317.3	33513.0	33637.9	33574.8	33433.2	33323.8	33189.9	33074.0
28876.8	10°	29140.8	28866.5	29109.9	29109.9	29278.5	28878.1	28915.5	28578.1	28593.6
24056.5	12.5°	24138.9	24238.1	24278.0	24392.6	24195.6	23983.1	23723.1	23671.6	23510.6
17979.6	15°	18238.4	18521.7	18278.3	18694.2	18493.3	18271.9	18232.0	17832.9	17959.0
13040.9	17.5°	12976.5	13289.3	13387.2	13625.4	13442.6	13311.2	13145.1	13024.1	13015.1
9129.5	20°	9201.6	9515.7	9587.8	9873.7	9853.1	9811.9	9671.5	9518.3	9352.2
6214.7	22.5°	6308.6	6564.8	6804.3	7189.3	7182.8	7061.8	7047.7	6831.4	6835.2
4198.5	25°	4242.2	4428.9	4485.6	4879.5	4923.3	4910.4	4837.1	4636.2	4712.2
2564.7	27.5°	2567.2	2730.7	2922.6	3061.6	3192.9	3172.3	3099.0	2986.9	2938.0
1541.1	30°	1582.3	1655.7	1726.5	1893.9	1972.4	2013.6	1978.9	1874.6	1882.3
1014.5	32.5°	1036.4	1098.2	1149.7	1255.3	1296.5	1372.5	1358.3	1336.4	1310.7
730.0	35°	755.7	800.8	835.6	884.5	937.3	1001.7	1012.0	1002.9	992.6
563.9	37.5°	576.8	623.1	663.1	683.7	724.8	775.1	803.4	802.1	794.4
459.6	40°	468.6	503.4	539.5	566.5	594.8	632.2	666.9	670.8	670.8
386.2	42.5°	391.4	421.0	457.1	485.4	506.0	540.7	576.8	579.4	576.8
327.0	45°	334.7	360.5	395.3	428.7	445.5	471.2	506.0	513.7	508.6
280.7	47.5°	291.0	314.1	343.8	379.8	397.8	421.0	453.2	462.2	460.9
242.0	50°	249.8	276.8	306.4	336.0	359.2	381.1	412.0	422.3	418.4
206.0	52.5°	220.2	244.6	270.4	302.6	329.6	348.9	373.4	391.4	386.2
173.8	55°	184.1	213.7	240.8	267.8	301.3	321.9	345.0	366.9	361.8
146.8	57.5°	159.6	184.1	215.0	239.5	272.9	297.4	320.6	343.8	342.5
119.7	60°	133.9	159.6	189.3	215.0	245.9	272.9	296.1	321.9	324.4
90.1	62.5°	105.6	136.5	162.2	191.8	222.7	252.3	272.9	298.7	302.6
68.2	65°	79.8	112.0	140.3	168.7	199.6	231.7	249.8	271.7	275.5
50.2	67.5°	59.2	86.3	119.7	145.5	177.7	208.6	225.3	243.3	249.8
30.9	70°	45.1	65.7	100.4	124.9	158.4	182.8	200.8	216.3	221.4
20.6	72.5°	28.3	51.5	81.1	106.9	136.5	158.4	171.2	180.2	188.0
11.6	75°	19.3	39.9	65.7	91.4	113.3	130.0	141.6	149.3	155.8
5.1	77.5°	11.6	30.9	54.1	76.0	90.1	103.0	114.6	119.7	123.6
3.9	80°	6.4	23.2	45.1	61.8	70.8	79.8	88.8	95.3	97.8
2.6	82.5°	3.9	18.0	36.0	47.6	51.5	60.5	69.5	73.4	73.4
1.3	85°	2.6	12.9	24.5	34.8	37.3	43.8	46.3	48.9	51.5
1.3	87.5°	2.6	7.7	15.4	19.3	20.6	23.2	24.5	27.0	29.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
40395.9
39068.5
36597.8
32681.3
28443.0
23363.9
17832.9
12775.6
9280.1
6760.5
4592.4
2895.5
1848.8
1301.6
988.8
790.5
663.1
574.2
508.6
458.3
415.9
385.0
364.4
343.8
325.7
305.1
279.4
252.3
224.0
186.7
154.5
122.3
95.3
72.1
50.2
28.3
0.0

(END OF REPORT)