

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: P636527

Luminaire Tested: **IFLD-L-SA7C-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636527
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26507.2 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 369
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



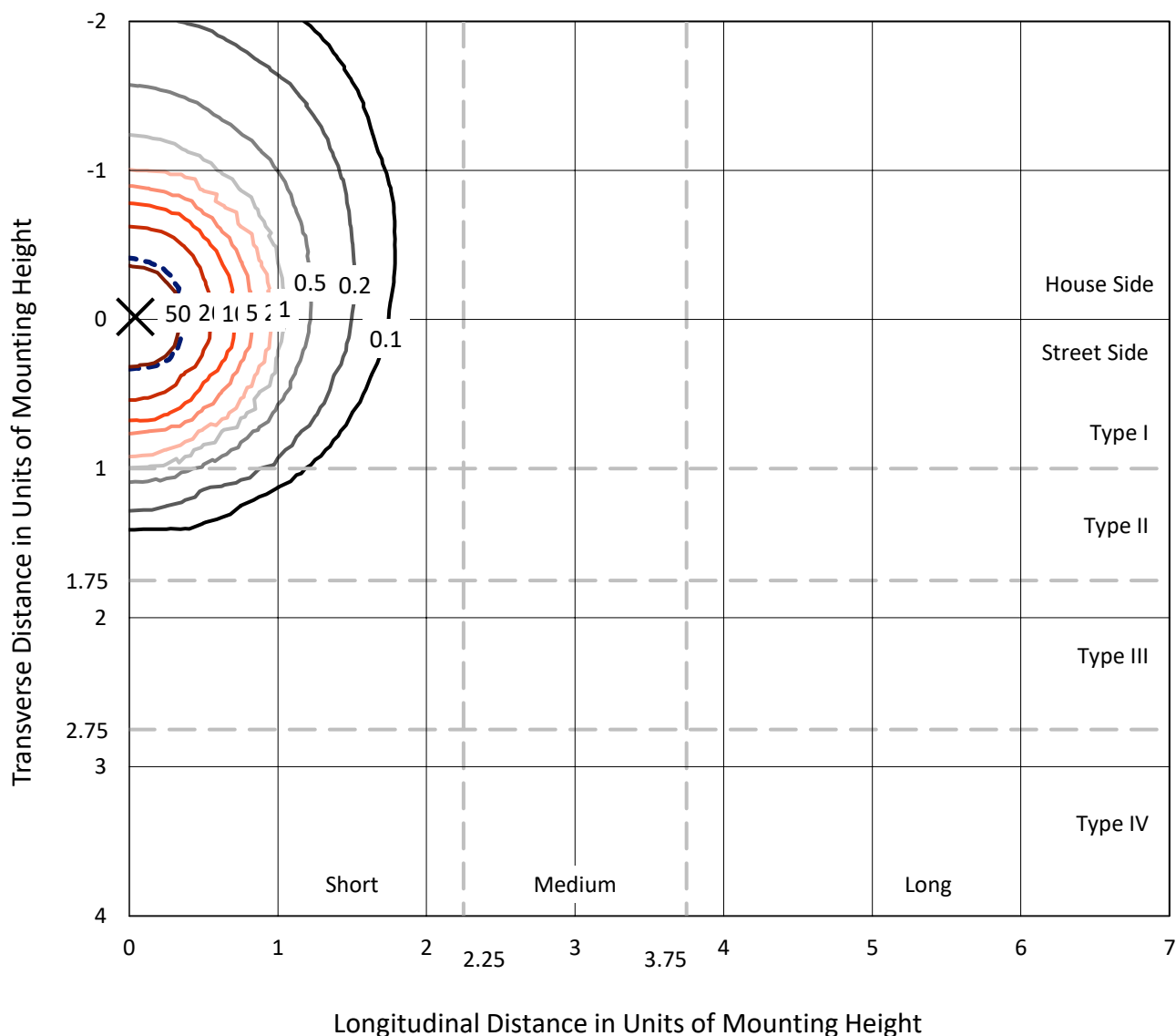
REPORT NUMBER: P636527

CATALOG NUMBER: IFLD-L-SA7C-940-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

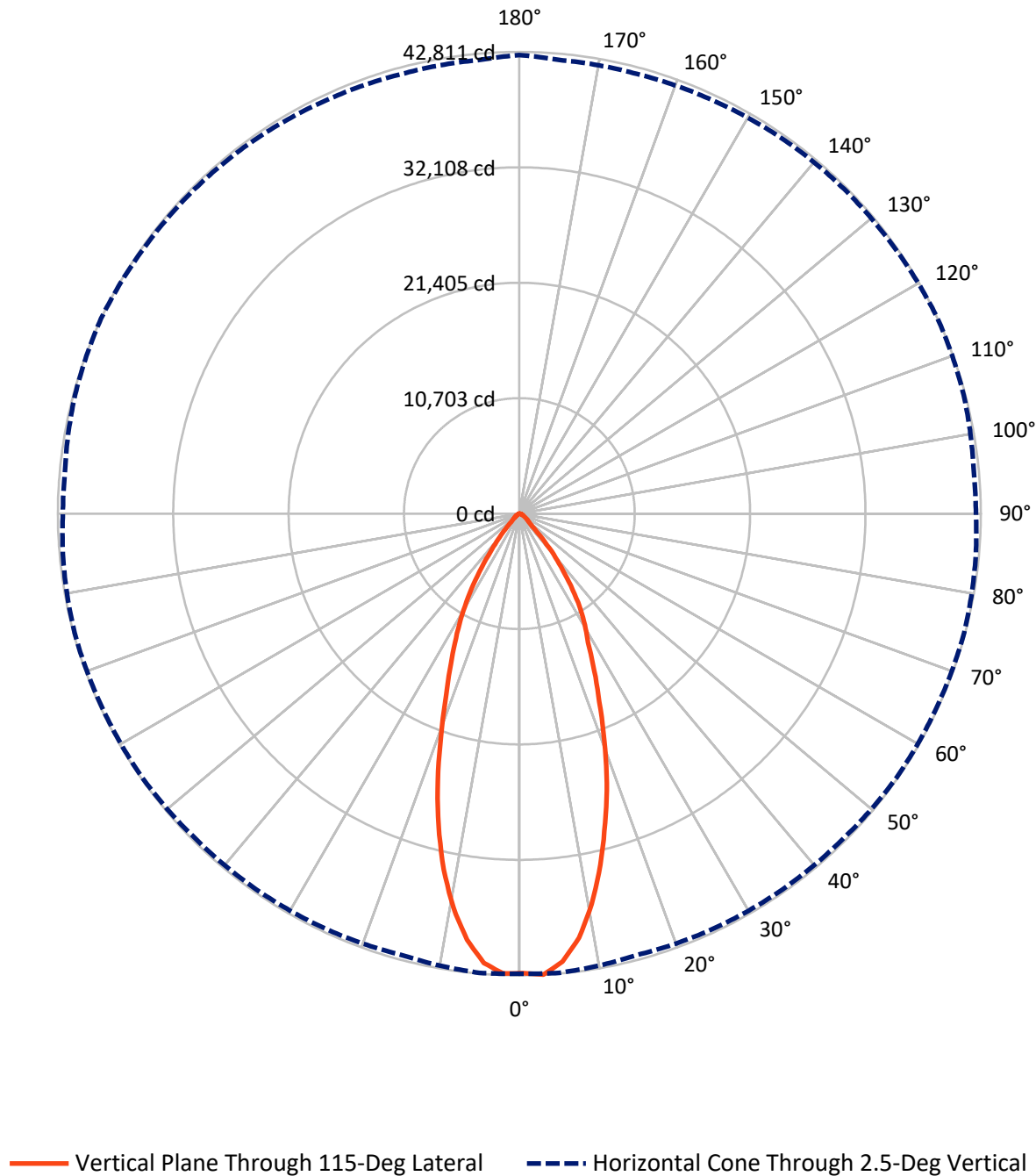


Based on 20 foot mounting height. Maximum calculated value = 106.5 fc

Type I - Short - N/A

REPORT NUMBER: P636527
CATALOG NUMBER: IFLD-L-SA7C-940-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636527

CATALOG NUMBER: IFLD-L-SA7C-940-U-55-VI

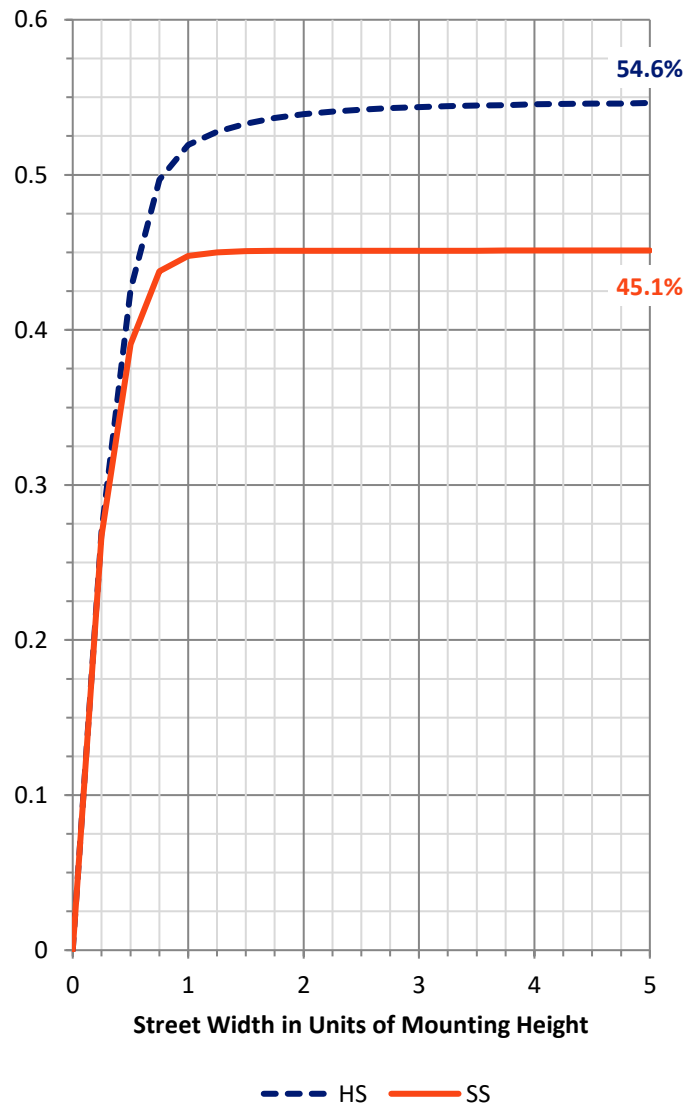
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14628.9	0.0	14628.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11878.3	0.0	11878.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	26507.2	0.0	26507.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3821.8	14.4
10°-20°	8077.3	30.5
20°-30°	7290.3	27.5
30°-40°	4824.4	18.2
40°-50°	1445.2	5.5
50°-60°	579.7	2.2
60°-70°	300.2	1.1
70°-80°	130.3	0.5
80°-90°	37.9	0.1
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°	26507.2	100.0
0°-180°	26507.2	100.0

Coefficient of Utilization



REPORT NUMBER: P636527

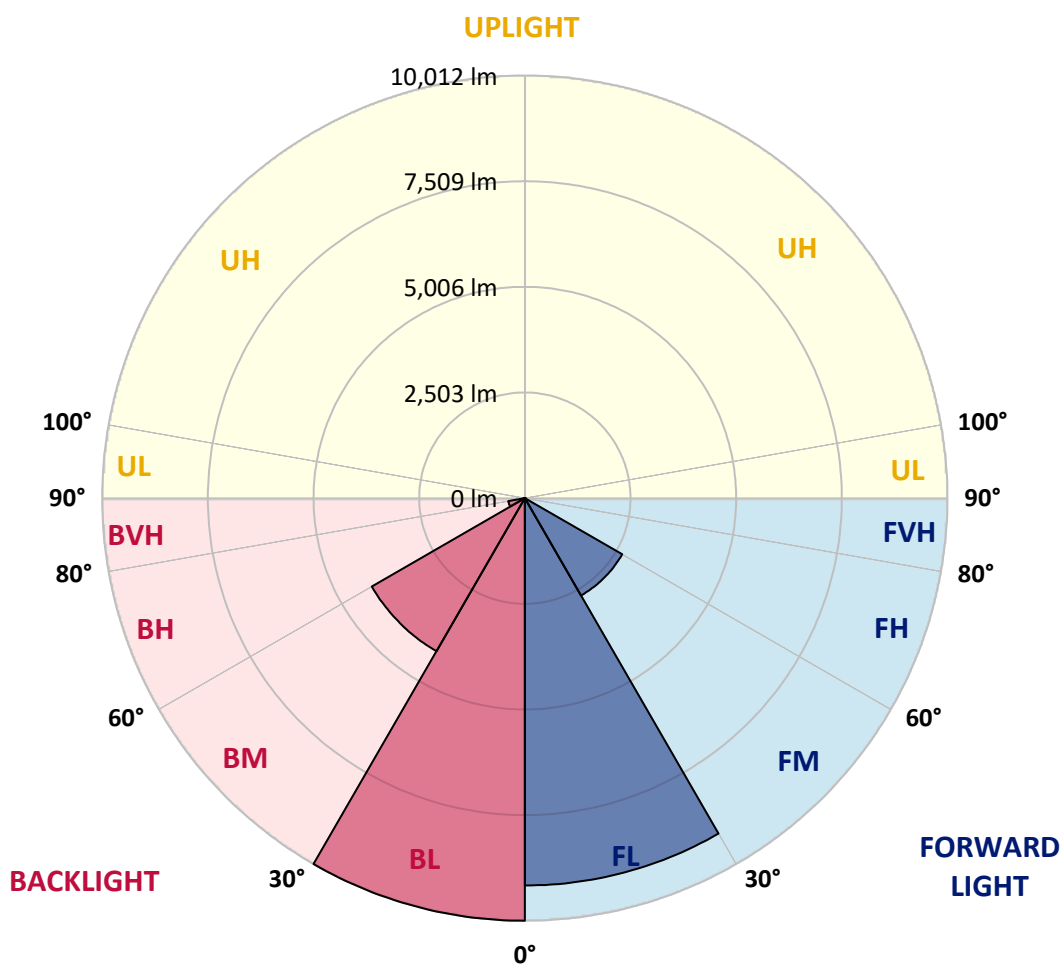
CATALOG NUMBER: IFLD-L-SA7C-940-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9177.0	34.6			
FM	(30°-60°)	2662.9	10.0			
FH	(60°-80°)	33.0	0.1			G0/660
FVH	(80°-90°)	5.5	0.0			G0/10
BL	(0°-30°)	10012.4	37.8	B5		
BM	(30°-60°)	4186.4	15.8	B3/5000		
BH	(60°-80°)	397.5	1.5	B1/500		G1/500
BVH	(80°-90°)	32.5	0.1			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 I Short



REPORT NUMBER: P636527

CATALOG NUMBER: IFLD-L-SA7C-940-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3
2.5°	42664.5	42740.4	42360.9	42491.1	42545.3	42561.5	42697.1	42675.4	42713.3	42512.7
5°	42100.7	41954.4	41672.5	41677.9	41661.6	41509.8	41818.8	41797.1	41732.1	41493.6
7.5°	40181.6	40393.1	39861.8	39851.0	39840.1	39655.8	40062.4	39813.0	39867.2	39525.7
10°	37373.5	37400.6	36928.9	36885.6	36923.5	36685.0	37156.6	37059.1	37162.1	36804.3
12.5°	33931.0	34082.8	33562.4	33486.5	33638.3	33302.2	33681.7	33730.5	33578.7	33529.9
15°	26612.5	27013.6	28000.3	29507.4	29897.7	29615.8	29919.4	29914.0	29979.0	29610.4
17.5°	20275.1	20313.1	20080.0	20801.0	24975.3	26330.6	26395.6	25880.6	25490.3	25354.8
20°	17700.1	17830.2	17618.8	17678.4	18345.2	22318.9	22470.7	21695.5	21028.7	20974.5
22.5°	15650.9	15732.2	15580.4	15629.2	15661.7	16128.0	18768.1	18085.0	17765.1	17521.2
25°	13916.1	13916.1	13834.8	13851.1	13818.5	13130.1	14485.3	15266.0	15081.7	14994.9
27.5°	12333.1	12354.8	12251.8	12311.5	11915.7	10804.4	10641.7	12945.7	12750.6	12593.4
30°	10831.5	10902.0	10804.4	10836.9	9974.9	9064.2	8598.0	10799.0	11042.9	10999.5
32.5°	8153.4	8473.3	9259.3	9291.9	8120.9	7421.6	7215.6	8668.4	9595.5	9514.1
35°	5052.5	5036.3	5068.8	6630.1	6228.9	5751.9	5827.7	6548.8	7595.0	7557.1
37.5°	3854.4	3849.0	3908.7	3751.4	4082.1	4364.0	4423.7	4423.7	5545.8	5551.3
40°	2922.0	2900.3	2894.9	2645.5	2217.3	3274.4	3176.8	3095.5	3854.4	3935.8
42.5°	1864.9	1929.9	1881.1	1610.1	1447.4	1789.0	1995.0	1929.9	2379.9	2439.5
45°	1040.9	1040.9	997.5	845.7	840.3	905.3	1138.4	1062.5	1219.8	1301.1
47.5°	504.2	493.3	542.1	666.8	693.9	672.2	813.2	845.7	921.6	997.5
50°	406.6	406.6	384.9	347.0	574.6	553.0	601.7	645.1	688.5	753.5
52.5°	341.5	341.5	314.4	292.7	330.7	422.9	428.3	509.6	504.2	596.3
55°	173.5	178.9	254.8	254.8	222.3	347.0	352.4	412.0	422.9	498.7
57.5°	16.3	21.7	32.5	157.2	173.5	189.7	265.6	303.6	352.4	384.9
60°	5.4	5.4	10.8	21.7	103.0	130.1	168.1	200.6	244.0	319.8
62.5°	0.0	0.0	5.4	10.8	21.7	81.3	92.2	103.0	146.4	200.6
65°	0.0	0.0	5.4	5.4	10.8	27.1	37.9	65.1	92.2	124.7
67.5°	0.0	0.0	5.4	5.4	10.8	16.3	21.7	32.5	43.4	81.3
70°	0.0	0.0	5.4	5.4	10.8	16.3	16.3	21.7	27.1	37.9
72.5°	0.0	0.0	5.4	5.4	10.8	21.7	16.3	16.3	21.7	27.1
75°	0.0	0.0	5.4	5.4	10.8	16.3	16.3	16.3	16.3	16.3
77.5°	0.0	0.0	5.4	5.4	10.8	16.3	16.3	16.3	10.8	10.8
80°	0.0	0.0	5.4	5.4	10.8	16.3	21.7	21.7	10.8	10.8
82.5°	0.0	0.0	5.4	10.8	10.8	27.1	32.5	27.1	10.8	5.4
85°	0.0	0.0	5.4	5.4	16.3	27.1	27.1	16.3	10.8	5.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.8	16.3	16.3	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636527

CATALOG NUMBER: IFLD-L-SA7C-940-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
42610.3	0°	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3	42610.3
42350.1	2.5°	42328.4	42659.1	42810.9	42653.7	42577.8	42469.4	42312.2	42203.7	42225.4
41363.5	5°	41271.3	41618.2	41737.5	41602.0	41488.1	41428.5	41401.4	41455.6	41596.6
39379.3	7.5°	39368.5	39590.7	39720.8	39655.8	39498.6	39677.5	39726.3	39693.7	39899.7
36695.8	10°	36706.7	36950.6	36831.4	36858.5	36674.2	36766.3	36739.2	36858.5	37064.5
33491.9	12.5°	33275.1	33508.2	33416.0	33399.8	33204.6	33378.1	33269.7	33399.8	33670.8
29458.6	15°	29670.0	29816.4	29756.7	29664.6	29491.1	29550.7	29886.9	29865.2	29984.4
25273.5	17.5°	25165.0	25869.8	26254.7	26336.0	26195.0	26314.3	26552.8	26493.2	26764.3
20860.6	20°	20822.7	21532.8	22481.6	23251.4	23267.6	23283.9	23435.7	23473.6	23706.7
17526.6	22.5°	17450.7	17954.9	18974.1	19993.2	20698.0	20844.4	20828.1	20882.3	20947.4
14875.7	25°	14837.7	15206.4	16138.8	16843.5	18079.6	18491.6	18610.8	18491.6	18529.5
12539.1	27.5°	12680.1	13243.9	13552.9	14306.4	15515.4	16469.5	16431.5	16361.1	16371.9
10912.8	30°	10907.4	11514.5	11969.9	12197.6	13108.4	14485.3	14626.3	14425.7	14431.1
9476.2	32.5°	9416.6	9606.3	10278.5	10462.8	11048.3	12300.6	12783.1	12631.3	12604.2
7578.8	35°	7801.0	7904.1	8213.1	8576.3	8923.2	9871.9	10668.8	10527.9	10598.4
5573.0	37.5°	5551.3	5974.1	6272.3	6570.4	6819.8	7416.1	8375.7	8245.6	8316.1
3946.6	40°	3914.1	4103.8	4618.8	4748.9	5117.6	5394.1	6207.2	6163.9	6250.6
2450.4	42.5°	2407.0	2542.5	2802.7	2927.4	3176.8	3334.0	3811.1	3865.3	3979.1
1355.3	45°	1366.1	1425.8	1604.7	1740.2	1924.5	1989.6	2157.6	2233.5	2298.6
1051.7	47.5°	1040.9	1105.9	1225.2	1344.4	1496.2	1550.5	1669.7	1783.6	1843.2
813.2	50°	851.1	910.8	1035.4	1133.0	1284.8	1333.6	1431.2	1555.9	1631.8
618.0	52.5°	645.1	731.9	883.6	986.7	1143.9	1203.5	1295.7	1420.3	1490.8
509.6	55°	531.3	596.3	731.9	872.8	1019.2	1100.5	1160.1	1311.9	1387.8
417.4	57.5°	455.4	504.2	590.9	759.0	883.6	1002.9	1051.7	1192.7	1268.6
330.7	60°	347.0	422.9	498.7	628.9	769.8	894.5	948.7	1073.4	1133.0
238.5	62.5°	287.3	336.1	433.7	504.2	661.4	791.5	845.7	959.5	1002.9
157.2	65°	200.6	271.1	363.2	406.6	553.0	677.6	753.5	840.3	883.6
92.2	67.5°	119.3	200.6	287.3	347.0	450.0	574.6	656.0	737.3	775.2
54.2	70°	75.9	157.2	227.7	292.7	352.4	471.6	569.2	639.7	623.4
32.5	72.5°	43.4	97.6	168.1	238.5	292.7	395.7	487.9	542.1	384.9
21.7	75°	27.1	70.5	141.0	195.2	238.5	314.4	401.2	412.0	238.5
10.8	77.5°	21.7	54.2	108.4	157.2	162.6	233.1	281.9	319.8	178.9
10.8	80°	10.8	43.4	92.2	130.1	103.0	162.6	216.8	249.4	141.0
5.4	82.5°	10.8	27.1	70.5	92.2	75.9	124.7	157.2	178.9	119.3
5.4	85°	5.4	21.7	37.9	54.2	54.2	81.3	70.5	86.7	75.9
5.4	87.5°	5.4	10.8	21.7	27.1	21.7	32.5	37.9	37.9	32.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
42610.3
42518.2
41889.3
40105.7
37145.8
33719.6
30011.5
26720.9
23657.9
20828.1
18469.9
16388.2
14436.6
12669.3
10663.4
8375.7
6283.1
4109.2
2293.2
1870.3
1664.3
1539.6
1409.5
1301.1
1143.9
1008.3
883.6
769.8
574.6
341.5
222.3
178.9
146.4
130.1
75.9
27.1
0.0

(END OF REPORT)