

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: P636517

Luminaire Tested: **IFLD-S-SA6C-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636517
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24845.5 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 321.5
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



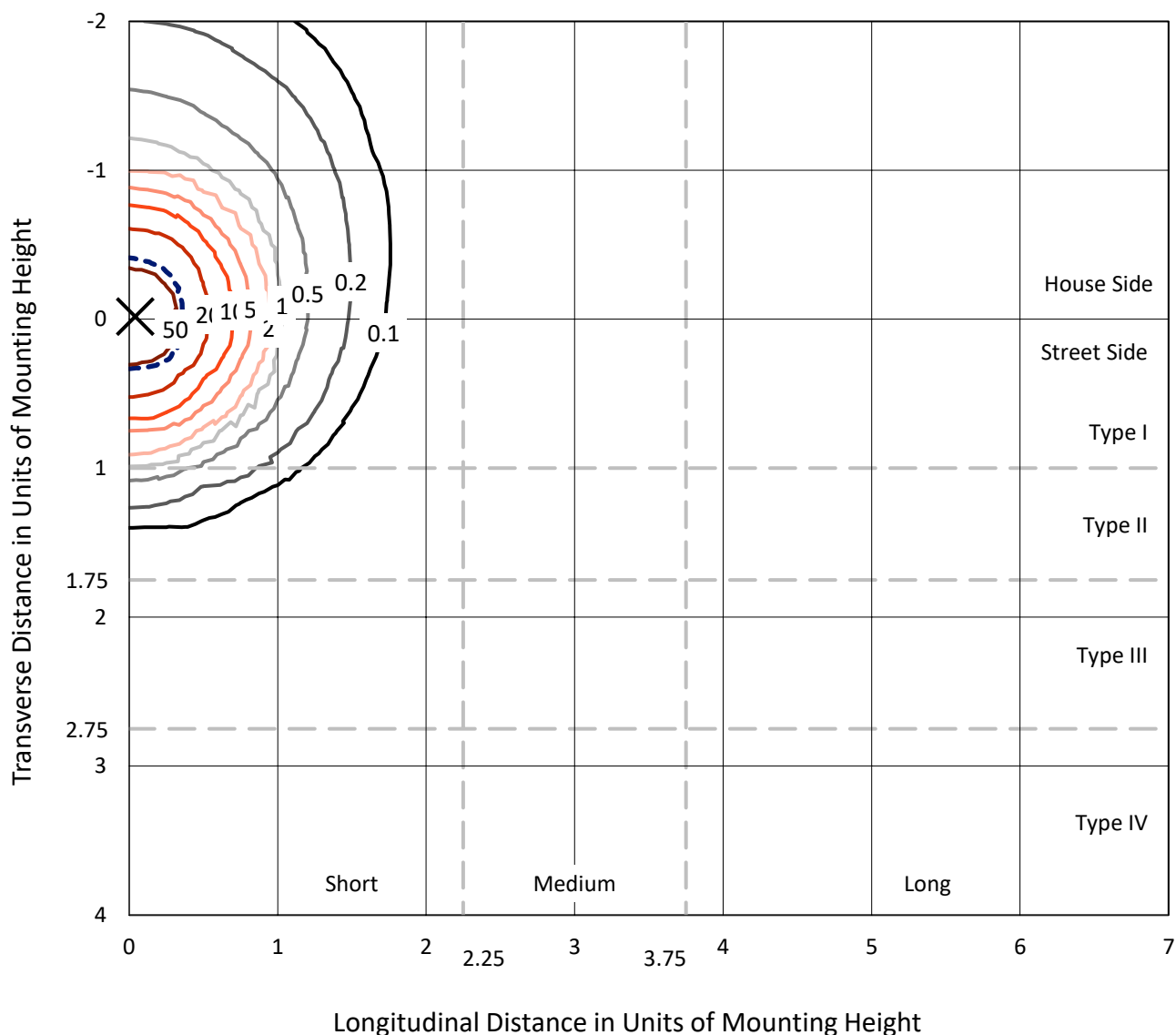
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

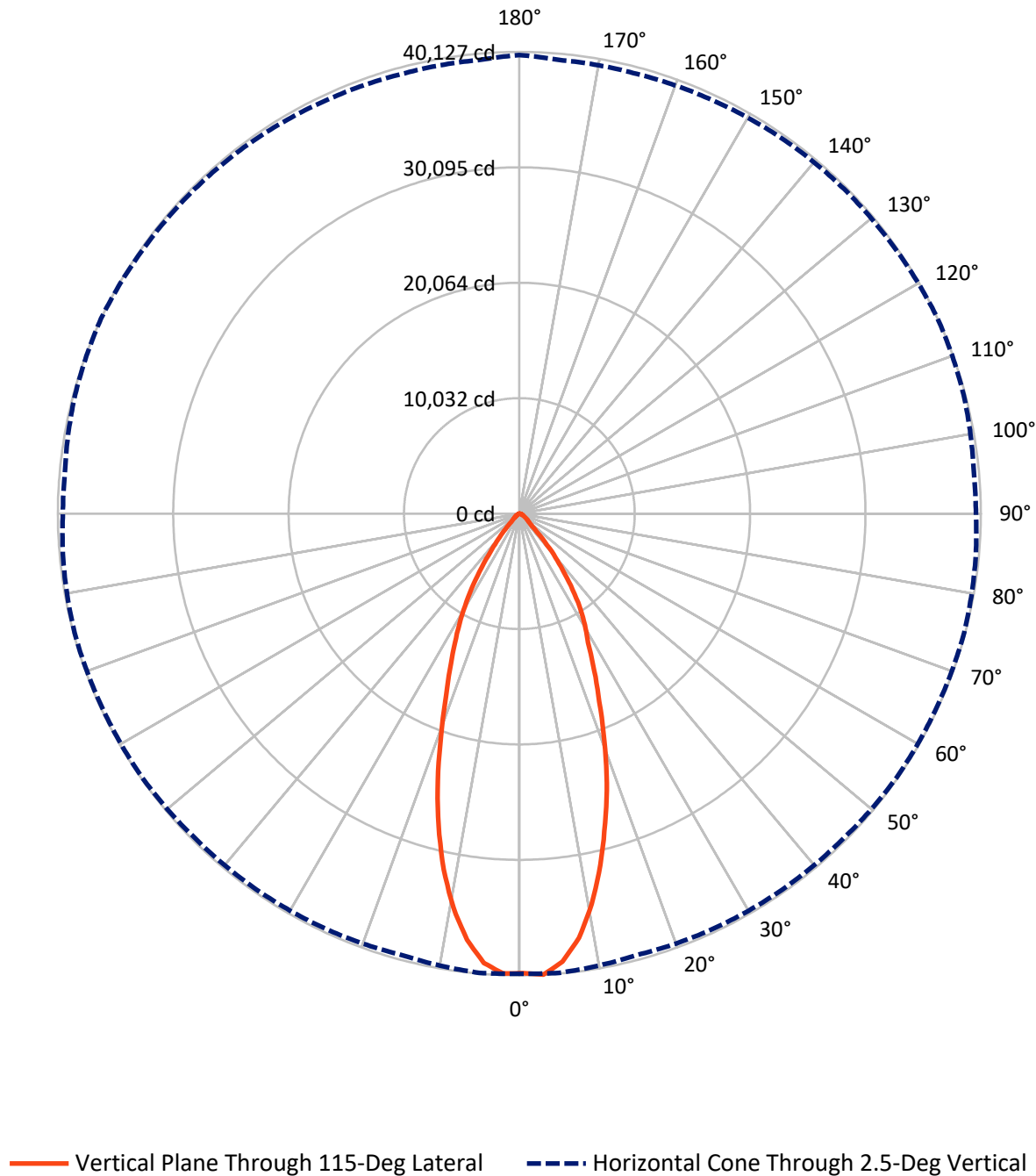


Based on 20 foot mounting height. Maximum calculated value = 99.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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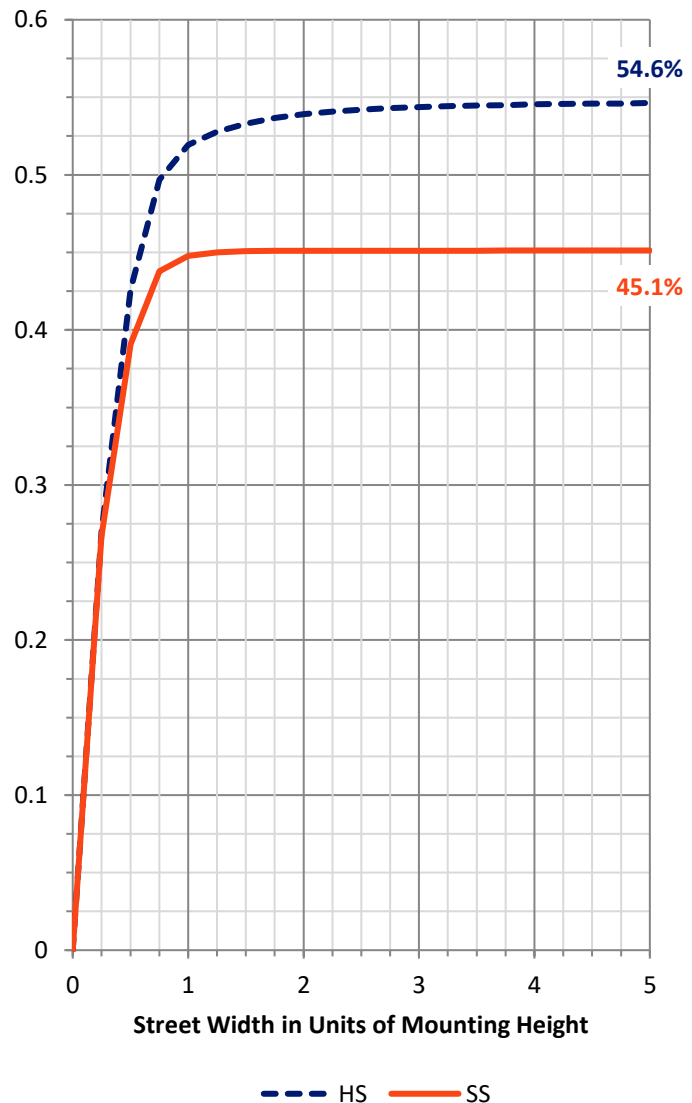
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13711.8	0.0	13711.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11133.7	0.0	11133.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	24845.5	0.0	24845.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3582.2	14.4
10°-20°	7571.0	30.5
20°-30°	6833.3	27.5
30°-40°	4522.0	18.2
40°-50°	1354.6	5.5
50°-60°	543.4	2.2
60°-70°	281.4	1.1
70°-80°	122.2	0.5
80°-90°	35.5	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°	24845.5	100.0
0°-180°	24845.5	100.0

Coefficient of Utilization



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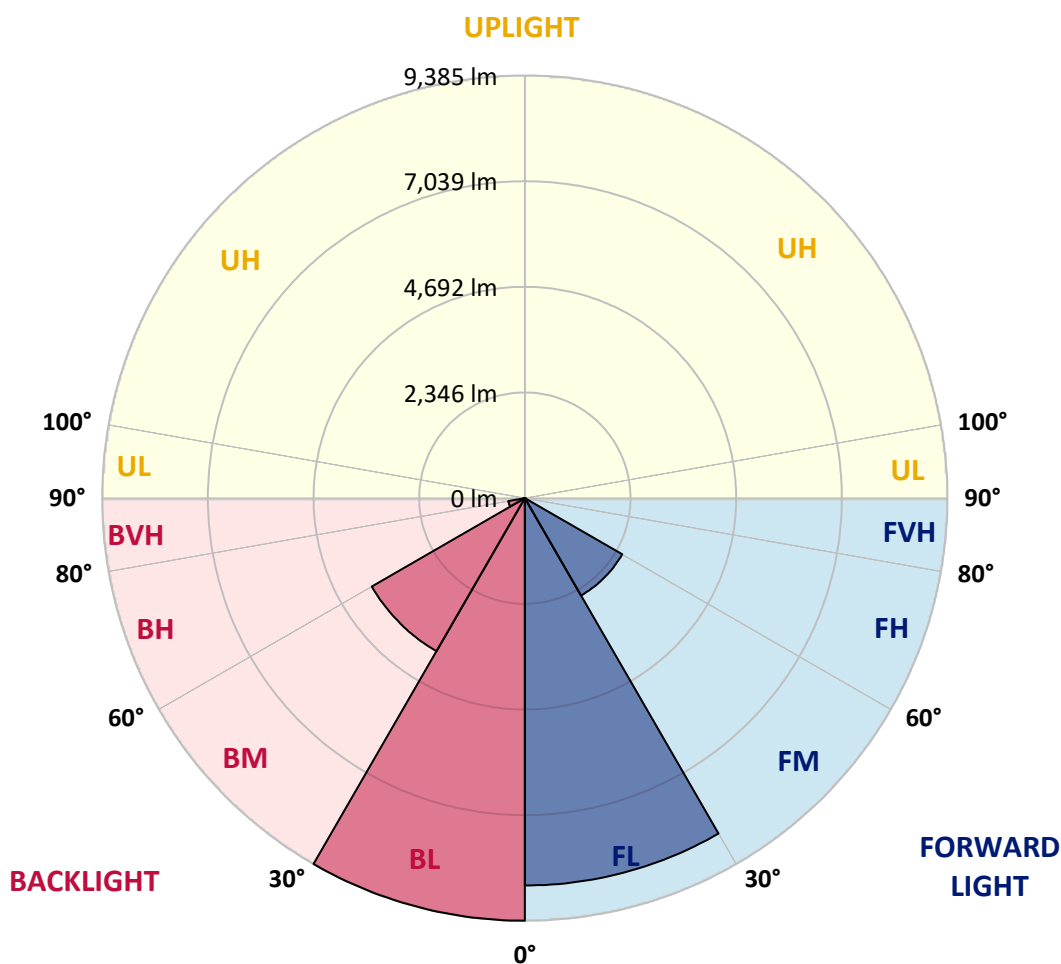
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8601.7	34.6			
FM	(30°-60°)	2495.9	10.0			
FH	(60°-80°)	30.9	0.1			G0/660
FVH	(80°-90°)	5.1	0.0			G0/10
BL	(0°-30°)	9384.8	37.8	B5		
BM	(30°-60°)	3924.0	15.8	B3/5000		
BH	(60°-80°)	372.6	1.5	B1/500		G1/500
BVH	(80°-90°)	30.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1
2.5°	39990.0	40061.1	39705.4	39827.4	39878.2	39893.4	40020.4	40000.1	40035.7	39847.7
5°	39461.5	39324.3	39060.1	39065.2	39049.9	38907.6	39197.3	39176.9	39116.0	38892.4
7.5°	37662.7	37860.9	37362.9	37352.8	37342.6	37169.8	37550.9	37317.2	37368.0	37047.9
10°	35030.6	35056.0	34613.9	34573.3	34608.8	34385.3	34827.3	34735.9	34832.4	34497.1
12.5°	31804.0	31946.2	31458.4	31387.3	31529.6	31214.5	31570.2	31615.9	31473.7	31427.9
15°	24944.2	25320.2	26245.0	27657.6	28023.5	27759.2	28043.8	28038.7	28099.7	27754.1
17.5°	19004.1	19039.7	18821.2	19497.0	23409.6	24680.0	24740.9	24258.2	23892.3	23765.3
20°	16590.5	16712.4	16514.3	16570.2	17195.2	20919.8	21062.1	20335.4	19710.4	19659.6
22.5°	14669.8	14746.0	14603.7	14649.4	14679.9	15116.9	17591.5	16951.3	16651.5	16422.8
25°	13043.7	13043.7	12967.5	12982.8	12952.3	12306.9	13577.3	14309.0	14136.2	14054.9
27.5°	11560.0	11580.3	11483.8	11539.7	11168.7	10127.1	9974.6	12134.2	11951.3	11803.9
30°	10152.5	10218.5	10127.1	10157.6	9349.6	8496.0	8059.0	10122.0	10350.6	10310.0
32.5°	7642.3	7942.1	8678.9	8709.4	7611.8	6956.3	6763.2	8125.0	8993.9	8917.7
35°	4735.8	4720.5	4751.0	6214.4	5838.4	5391.3	5462.4	6138.2	7118.9	7083.4
37.5°	3612.8	3607.7	3663.6	3516.3	3826.2	4090.5	4146.4	4146.4	5198.2	5203.3
40°	2738.8	2718.5	2713.4	2479.7	2078.3	3069.1	2977.7	2901.4	3612.8	3689.0
42.5°	1748.0	1808.9	1763.2	1509.2	1356.7	1676.8	1869.9	1808.9	2230.7	2286.6
45°	975.6	975.6	935.0	792.7	787.6	848.6	1067.1	995.9	1143.3	1219.5
47.5°	472.6	462.4	508.1	625.0	650.4	630.1	762.2	792.7	863.8	935.0
50°	381.1	381.1	360.8	325.2	538.6	518.3	564.0	604.7	645.3	706.3
52.5°	320.1	320.1	294.7	274.4	310.0	396.3	401.4	477.6	472.6	558.9
55°	162.6	167.7	238.8	238.8	208.3	325.2	330.3	386.2	396.3	467.5
57.5°	15.2	20.3	30.5	147.4	162.6	177.8	249.0	284.6	330.3	360.8
60°	5.1	5.1	10.2	20.3	96.5	122.0	157.5	188.0	228.7	299.8
62.5°	0.0	0.0	5.1	10.2	20.3	76.2	86.4	96.5	137.2	188.0
65°	0.0	0.0	5.1	5.1	10.2	25.4	35.6	61.0	86.4	116.9
67.5°	0.0	0.0	5.1	5.1	10.2	15.2	20.3	30.5	40.7	76.2
70°	0.0	0.0	5.1	5.1	10.2	15.2	15.2	20.3	25.4	35.6
72.5°	0.0	0.0	5.1	5.1	10.2	20.3	15.2	15.2	20.3	25.4
75°	0.0	0.0	5.1	5.1	10.2	15.2	15.2	15.2	15.2	15.2
77.5°	0.0	0.0	5.1	5.1	10.2	15.2	15.2	15.2	10.2	10.2
80°	0.0	0.0	5.1	5.1	10.2	15.2	20.3	20.3	10.2	10.2
82.5°	0.0	0.0	5.1	10.2	10.2	25.4	30.5	25.4	10.2	5.1
85°	0.0	0.0	5.1	5.1	15.2	25.4	25.4	15.2	10.2	5.1
87.5°	0.0	0.0	0.0	5.1	5.1	10.2	15.2	15.2	5.1	5.1
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°
39939.1	0°	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1	39939.1
39695.2	2.5°	39674.9	39984.9	40127.2	39979.8	39908.7	39807.0	39659.7	39558.0	39578.4
38770.4	5°	38684.1	39009.3	39121.1	38994.0	38887.3	38831.4	38806.0	38856.8	38988.9
36910.7	7.5°	36900.5	37108.8	37230.8	37169.8	37022.5	37190.2	37235.9	37205.4	37398.5
34395.4	10°	34405.6	34634.2	34522.5	34547.9	34375.1	34461.5	34436.1	34547.9	34741.0
31392.4	12.5°	31189.1	31407.6	31321.2	31306.0	31123.1	31285.7	31184.0	31306.0	31560.1
27611.9	15°	27810.0	27947.2	27891.3	27805.0	27642.4	27698.3	28013.3	27993.0	28104.8
23689.1	17.5°	23587.5	24248.0	24608.8	24685.0	24552.9	24664.7	24888.3	24832.4	25086.5
19552.9	20°	19517.3	20183.0	21072.2	21793.8	21809.0	21824.3	21966.5	22002.1	22220.6
16427.9	22.5°	16356.8	16829.3	17784.6	18739.9	19400.5	19537.7	19522.4	19573.2	19634.2
13943.1	25°	13907.6	14253.1	15127.1	15787.6	16946.2	17332.4	17444.2	17332.4	17367.9
11753.1	27.5°	11885.2	12413.7	12703.3	13409.6	14542.7	15437.0	15401.5	15335.4	15345.6
10228.7	30°	10223.6	10792.7	11219.5	11433.0	12286.6	13577.3	13709.4	13521.4	13526.5
8882.1	32.5°	8826.2	9004.1	9634.2	9806.9	10355.7	11529.5	11981.7	11839.5	11814.1
7103.7	35°	7312.0	7408.6	7698.2	8038.6	8363.8	9253.1	10000.0	9867.9	9934.0
5223.6	37.5°	5203.3	5599.6	5879.1	6158.6	6392.3	6951.2	7850.6	7728.7	7794.7
3699.2	40°	3668.7	3846.6	4329.3	4451.2	4796.8	5055.9	5818.1	5777.5	5858.8
2296.8	42.5°	2256.1	2383.1	2627.0	2743.9	2977.7	3125.0	3572.2	3623.0	3729.7
1270.3	45°	1280.5	1336.4	1504.1	1631.1	1803.9	1864.8	2022.4	2093.5	2154.5
985.8	47.5°	975.6	1036.6	1148.4	1260.2	1402.4	1453.3	1565.0	1671.8	1727.6
762.2	50°	797.8	853.7	970.5	1062.0	1204.3	1250.0	1341.5	1458.3	1529.5
579.3	52.5°	604.7	686.0	828.3	924.8	1072.2	1128.1	1214.4	1331.3	1397.4
477.6	55°	498.0	558.9	686.0	818.1	955.3	1031.5	1087.4	1229.7	1300.8
391.3	57.5°	426.8	472.6	553.9	711.4	828.3	940.0	985.8	1117.9	1189.0
310.0	60°	325.2	396.3	467.5	589.4	721.5	838.4	889.2	1006.1	1062.0
223.6	62.5°	269.3	315.0	406.5	472.6	619.9	741.9	792.7	899.4	940.0
147.4	65°	188.0	254.1	340.4	381.1	518.3	635.2	706.3	787.6	828.3
86.4	67.5°	111.8	188.0	269.3	325.2	421.7	538.6	614.8	691.1	726.6
50.8	70°	71.1	147.4	213.4	274.4	330.3	442.1	533.5	599.6	584.4
30.5	72.5°	40.7	91.5	157.5	223.6	274.4	370.9	457.3	508.1	360.8
20.3	75°	25.4	66.1	132.1	182.9	223.6	294.7	376.0	386.2	223.6
10.2	77.5°	20.3	50.8	101.6	147.4	152.4	218.5	264.2	299.8	167.7
10.2	80°	10.2	40.7	86.4	122.0	96.5	152.4	203.3	233.7	132.1
5.1	82.5°	10.2	25.4	66.1	86.4	71.1	116.9	147.4	167.7	111.8
5.1	85°	5.1	20.3	35.6	50.8	50.8	76.2	66.1	81.3	71.1
5.1	87.5°	5.1	10.2	20.3	25.4	20.3	30.5	35.6	35.6	30.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
39939.1
39852.8
39263.3
37591.6
34817.2
31605.8
28130.2
25045.8
22174.9
19522.4
17312.0
15360.8
13531.5
11875.0
9994.9
7850.6
5889.2
3851.6
2149.4
1753.1
1560.0
1443.1
1321.1
1219.5
1072.2
945.1
828.3
721.5
538.6
320.1
208.3
167.7
137.2
122.0
71.1
25.4
0.0

(END OF REPORT)