

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: P637873

Luminaire Tested: **IFLD-S-SA3A-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637873  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11442.4 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

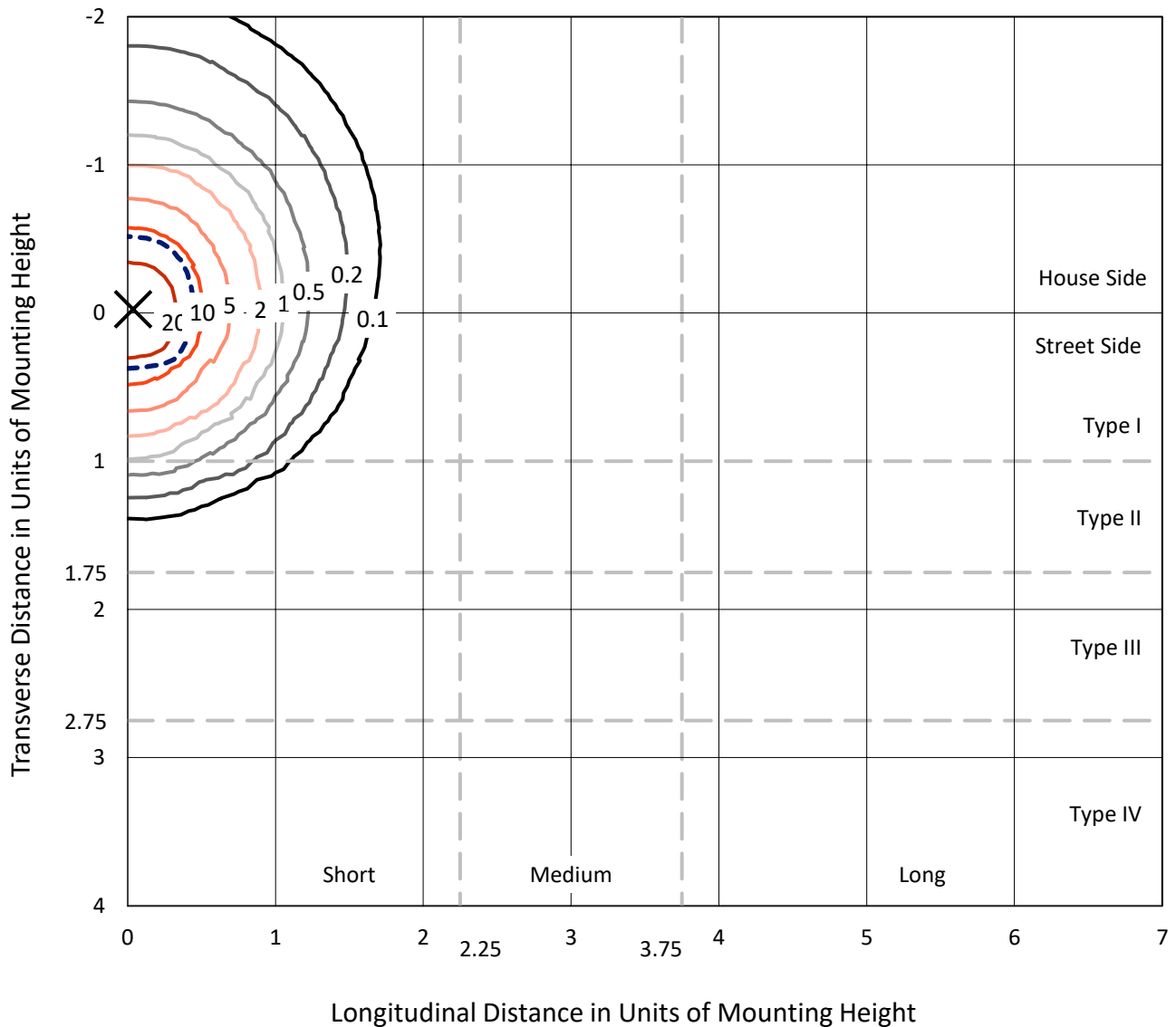
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

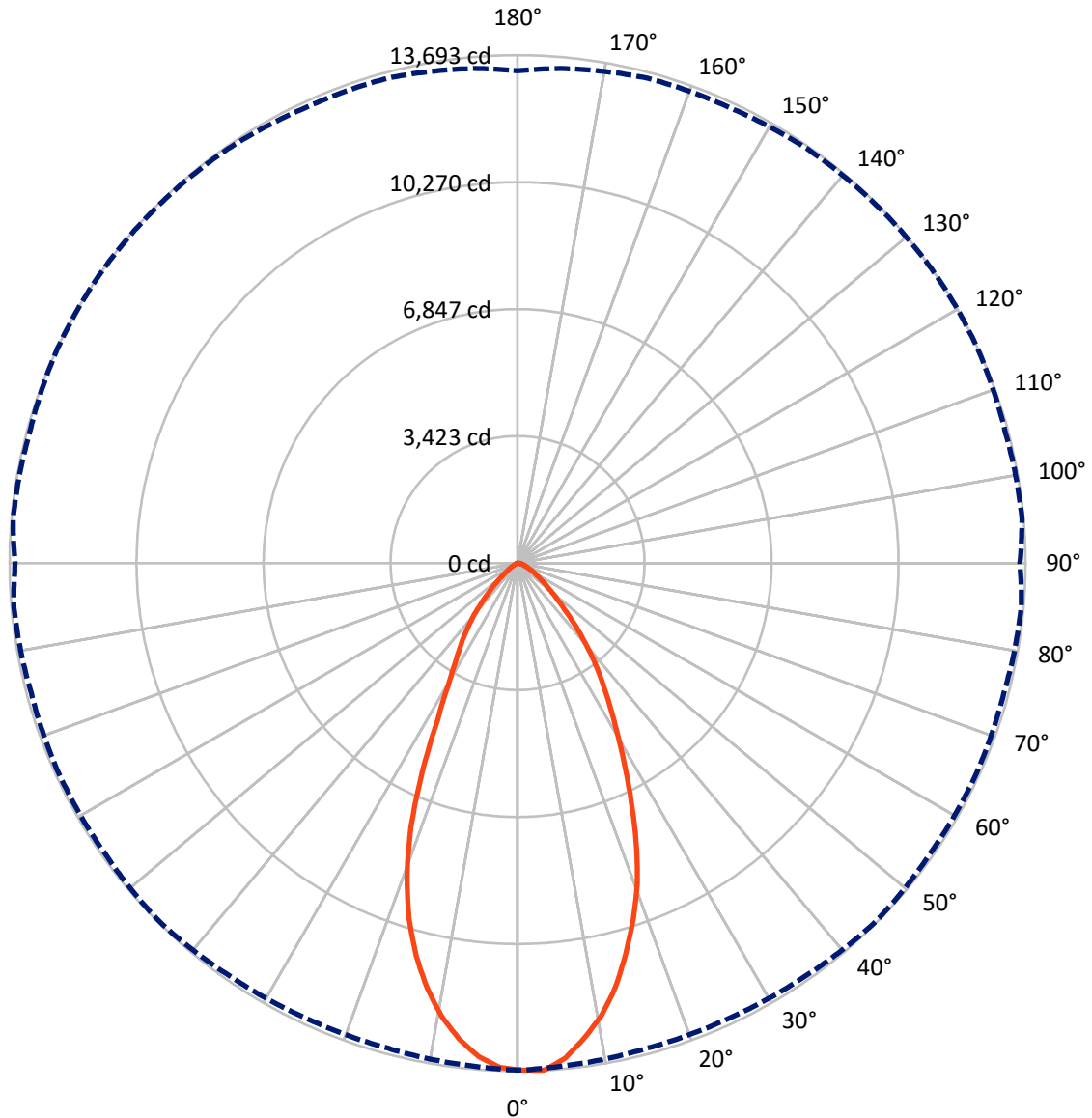
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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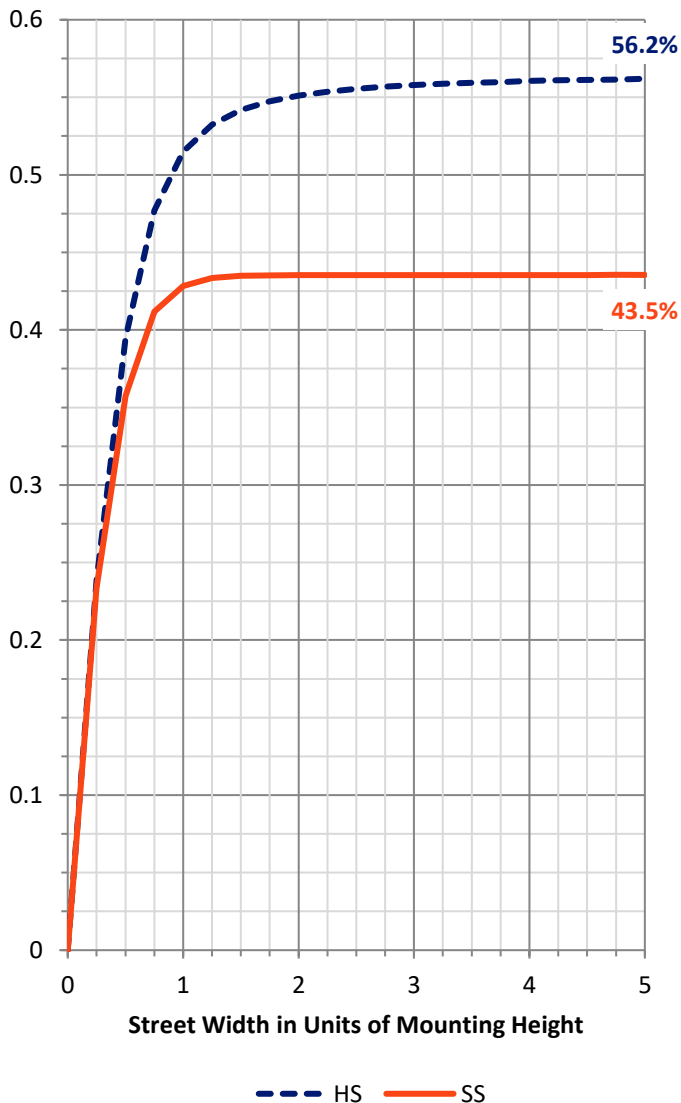
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6492.9	0.0	6492.9
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	4949.5	0.0	4949.5
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	11442.4	0.0	11442.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1241.4	10.8
10°-20°	2959.1	25.9
20°-30°	3013.8	26.3
30°-40°	2247.4	19.6
40°-50°	1174.1	10.3
50°-60°	493.8	4.3
60°-70°	201.7	1.8
70°-80°	84.9	0.7
80°-90°	26.1	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°	11442.4	100.0
0°-180°	11442.4	100.0



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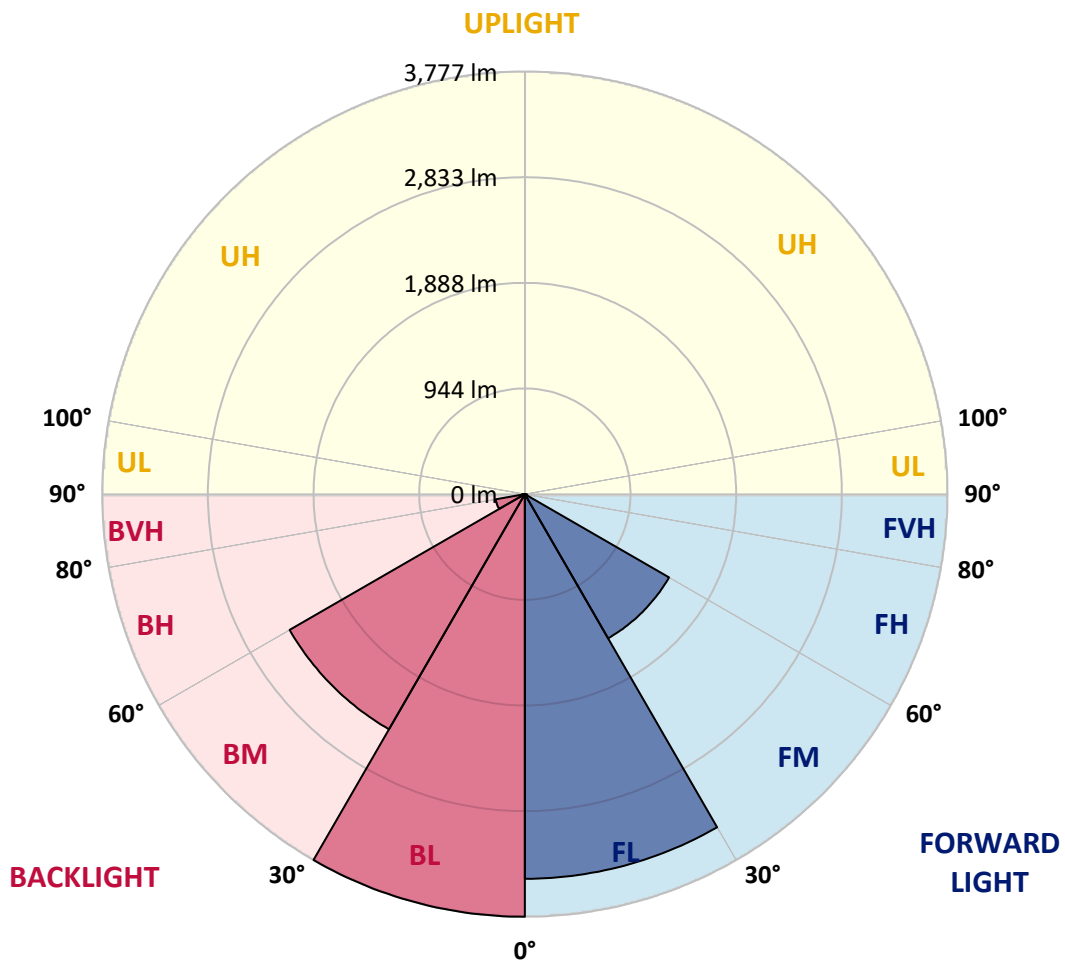
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3437.4	30.0			
FM (30°-60°)	1488.1	13.0			
FH (60°-80°)	21.5	0.2			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	3776.9	33.0	B4/5000		
BM (30°-60°)	2427.2	21.2	B2/2500		
BH (60°-80°)	265.0	2.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9
2.5°	13672.4	13616.5	13537.2	13529.8	13571.0	13660.6	13603.3	13606.2	13571.0	13631.2
5°	13457.8	13404.9	13350.5	13278.5	13338.7	13377.0	13347.6	13315.2	13269.7	13328.4
7.5°	13052.1	13022.7	12941.9	12909.5	12946.3	12988.9	12925.7	12916.9	12853.7	12930.1
10°	12431.9	12420.1	12340.7	12321.6	12353.9	12418.6	12390.7	12384.8	12345.1	12337.8
12.5°	11788.1	11742.5	11644.0	11638.1	11686.6	11783.7	11708.7	11636.7	11658.7	11677.8
15°	10130.1	10081.6	10325.6	10709.2	10910.6	10903.2	10925.3	10838.6	10812.1	10820.9
17.5°	8053.2	7970.9	8059.1	8652.9	9609.8	10165.4	10012.5	9825.8	9725.9	9659.7
20°	6950.8	6955.3	6939.1	7091.9	7688.7	8955.7	8918.9	8558.8	8428.0	8373.6
22.5°	6280.6	6255.6	6220.3	6268.8	6429.1	7172.8	7671.1	7340.3	7294.8	7234.5
25°	5623.6	5623.6	5581.0	5629.5	5675.0	5685.3	6185.1	6320.3	6232.1	6232.1
27.5°	5054.8	5025.4	5006.3	5028.3	4968.0	4678.5	4741.7	5434.0	5373.7	5337.0
30°	4490.3	4481.5	4449.2	4478.6	4255.2	3928.9	3796.6	4585.9	4649.1	4635.9
32.5°	3706.9	3742.2	3886.2	3931.8	3549.6	3286.5	3160.1	3806.9	4059.7	4049.4
35°	2519.3	2548.7	2713.3	3257.2	2942.6	2754.5	2717.7	3027.9	3443.8	3483.5
37.5°	2006.3	2001.9	2048.9	2146.0	2365.0	2319.4	2309.1	2389.9	2808.9	2826.5
40°	1653.6	1647.7	1646.2	1566.8	1512.5	1928.4	1900.5	1852.0	2215.0	2250.3
42.5°	1333.1	1339.0	1343.4	1170.0	1090.6	1487.5	1471.3	1421.3	1737.3	1778.5
45°	1046.5	1045.1	1053.9	871.6	849.6	951.0	1099.4	1059.7	1311.1	1355.2
47.5°	542.4	561.5	680.5	674.7	684.9	674.7	831.9	821.6	986.3	1056.8
50°	364.5	370.4	380.7	382.2	539.4	496.8	564.4	639.4	690.8	799.6
52.5°	282.2	286.6	260.2	244.0	330.7	367.5	370.4	442.4	482.1	592.3
55°	157.3	176.4	189.6	191.1	182.3	271.9	270.4	327.8	358.6	432.1
57.5°	20.6	25.0	38.2	123.5	122.0	151.4	189.6	238.1	255.8	316.0
60°	1.5	2.9	4.4	19.1	80.8	88.2	129.3	148.5	177.8	221.9
62.5°	0.0	0.0	1.5	4.4	16.2	51.4	67.6	77.9	104.4	145.5
65°	0.0	0.0	1.5	2.9	5.9	19.1	26.5	42.6	61.7	89.7
67.5°	0.0	0.0	1.5	2.9	4.4	7.3	11.8	19.1	32.3	54.4
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.8	17.6	29.4
72.5°	0.0	0.0	1.5	1.5	2.9	7.3	7.3	8.8	11.8	16.2
75°	0.0	0.0	1.5	2.9	4.4	7.3	7.3	7.3	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	4.4	7.3	5.9	7.3	7.3	7.3
80°	0.0	0.0	1.5	2.9	4.4	7.3	8.8	7.3	5.9	5.9
82.5°	0.0	0.0	1.5	4.4	4.4	10.3	10.3	10.3	4.4	4.4
85°	0.0	0.0	2.9	4.4	7.3	11.8	11.8	8.8	4.4	2.9
87.5°	0.0	0.0	1.5	2.9	2.9	5.9	8.8	7.3	2.9	1.5
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°
13670.9	0°	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9	13670.9
13543.0	2.5°	13651.8	13615.1	13684.1	13693.0	13663.6	13626.8	13541.6	13534.2	13385.8
13243.2	5°	13393.1	13332.9	13377.0	13406.4	13396.1	13356.4	13321.1	13288.8	13155.0
12756.7	7.5°	12911.0	12889.0	12909.5	12931.6	12974.2	12931.6	12916.9	12883.1	12750.8
12277.5	10°	12376.0	12334.8	12412.7	12402.5	12390.7	12378.9	12317.2	12323.1	12167.3
11624.9	12.5°	11719.0	11649.9	11724.9	11733.7	11724.9	11683.7	11614.6	11644.0	11501.4
10743.0	15°	10835.6	10828.3	10882.6	10917.9	10942.9	10898.8	10875.3	10890.0	10804.7
9608.3	17.5°	9750.9	9846.4	10024.3	10084.5	10086.0	10131.6	10118.3	10100.7	10037.5
8351.6	20°	8475.1	8658.8	8932.2	9212.9	9293.8	9255.5	9237.9	9270.2	9176.2
7171.3	22.5°	7297.7	7455.0	7772.5	8182.6	8419.2	8442.7	8438.3	8410.4	8373.6
6226.2	25°	6298.2	6437.9	6742.1	7116.9	7571.1	7638.7	7641.7	7632.8	7600.5
5369.3	27.5°	5454.6	5623.6	5791.1	6126.3	6609.8	6889.1	6853.8	6843.5	6831.8
4646.1	30°	4690.2	4903.4	5060.6	5269.4	5703.0	6080.7	6117.4	6099.8	6071.9
4047.9	32.5°	4084.7	4211.1	4411.0	4552.1	4863.7	5291.4	5432.5	5419.3	5394.3
3508.5	35°	3558.5	3608.4	3765.7	3923.0	4130.2	4544.7	4753.4	4724.0	4719.6
2858.8	37.5°	2930.8	3098.4	3185.1	3343.9	3489.4	3811.3	4099.4	4086.1	4087.6
2298.8	40°	2366.4	2463.4	2635.4	2769.2	2902.9	3138.1	3458.5	3467.3	3464.4
1780.0	42.5°	1816.7	1910.8	2091.6	2237.1	2356.1	2501.7	2807.4	2817.7	2830.9
1386.1	45°	1418.4	1478.7	1610.9	1762.3	1888.7	1976.9	2209.2	2275.3	2276.8
1074.4	47.5°	1100.9	1170.0	1264.1	1409.6	1533.0	1596.2	1765.3	1854.9	1850.5
824.6	50°	864.3	927.5	1003.9	1118.5	1252.3	1302.3	1427.2	1515.4	1511.0
621.7	52.5°	661.4	742.3	809.9	898.1	1028.9	1071.5	1161.2	1262.6	1247.9
455.6	55°	501.2	583.5	646.7	720.2	839.3	893.7	955.4	1036.2	1039.2
352.8	57.5°	377.7	463.0	520.3	595.3	684.9	745.2	792.2	879.0	877.5
241.1	60°	270.4	343.9	413.0	490.9	560.0	629.1	661.4	743.7	746.7
170.5	62.5°	195.5	264.6	330.7	398.3	460.1	527.7	557.1	621.7	630.6
111.7	65°	136.7	185.2	261.6	313.1	382.2	432.1	470.3	526.2	536.5
66.1	67.5°	88.2	133.8	207.2	252.8	316.0	358.6	398.3	442.4	455.6
42.6	70°	52.9	101.4	154.3	202.8	260.2	298.4	336.6	374.8	382.2
20.6	72.5°	33.8	70.6	111.7	164.6	208.7	249.9	283.7	311.6	289.6
13.2	75°	19.1	48.5	88.2	129.3	169.0	208.7	236.6	251.3	201.4
8.8	77.5°	11.8	35.3	72.0	104.4	130.8	167.6	185.2	194.0	144.0
5.9	80°	7.3	26.5	60.3	85.3	85.3	123.5	144.0	151.4	104.4
4.4	82.5°	5.9	19.1	47.0	64.7	57.3	92.6	113.2	114.6	73.5
2.9	85°	4.4	14.7	29.4	42.6	39.7	64.7	66.1	73.5	48.5
2.9	87.5°	2.9	8.8	17.6	25.0	22.0	30.9	35.3	39.7	26.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/>
13670.9
13269.7
13047.7
12722.9
12114.4
11460.3
10701.9
9943.4
9108.6
8303.1
7491.7
6762.7
6036.6
5328.1
4671.1
4040.6
3413.0
2786.8
2238.6
1834.4
1511.0
1249.4
1039.2
874.6
739.3
627.6
533.5
454.2
376.3
269.0
191.1
135.2
97.0
67.6
44.1
23.5
0.0

(END OF REPORT)