

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: P636646

Luminaire Tested: **IFLD-L-SA8A-935-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636646  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-935-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18110.7 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

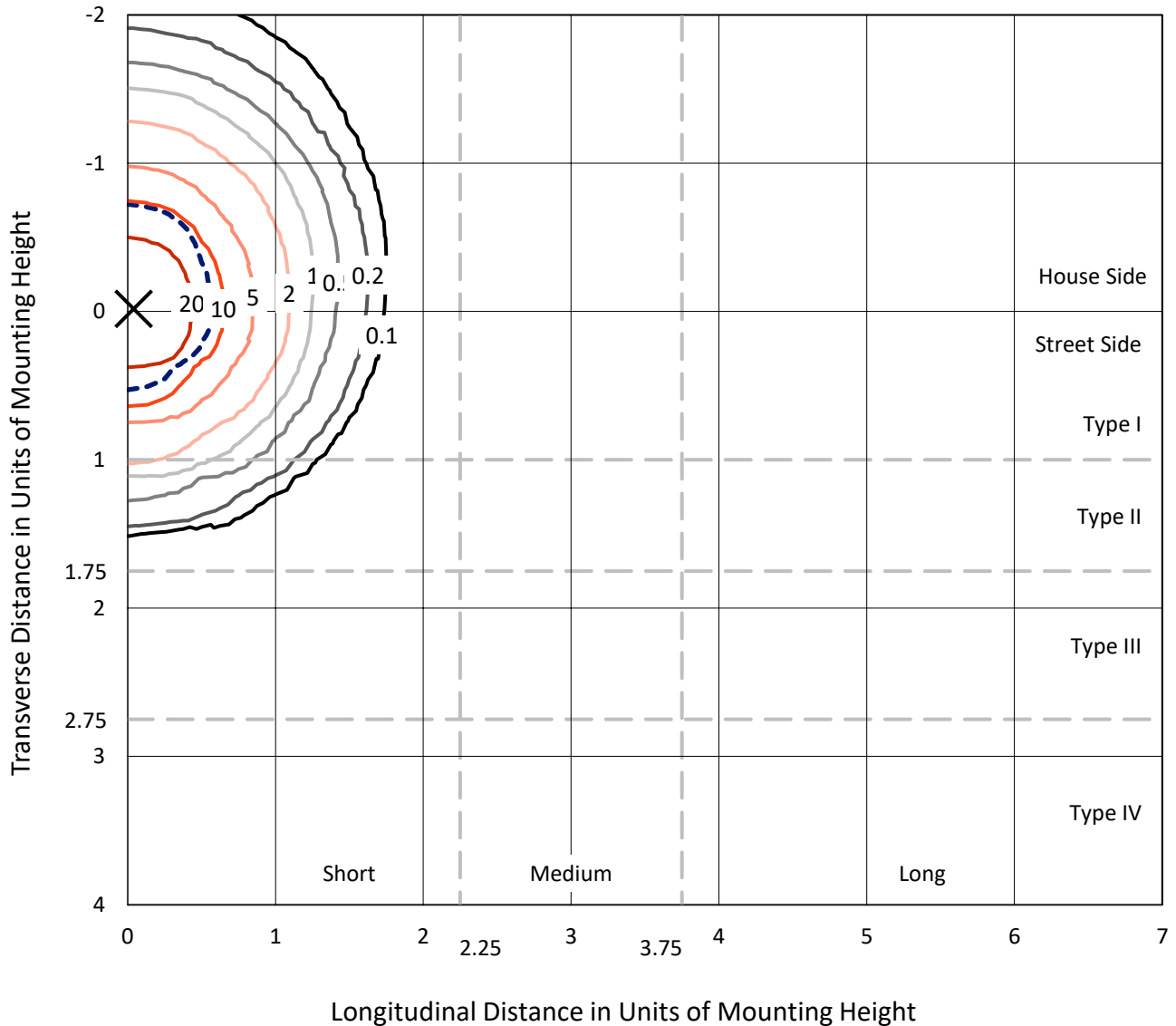
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

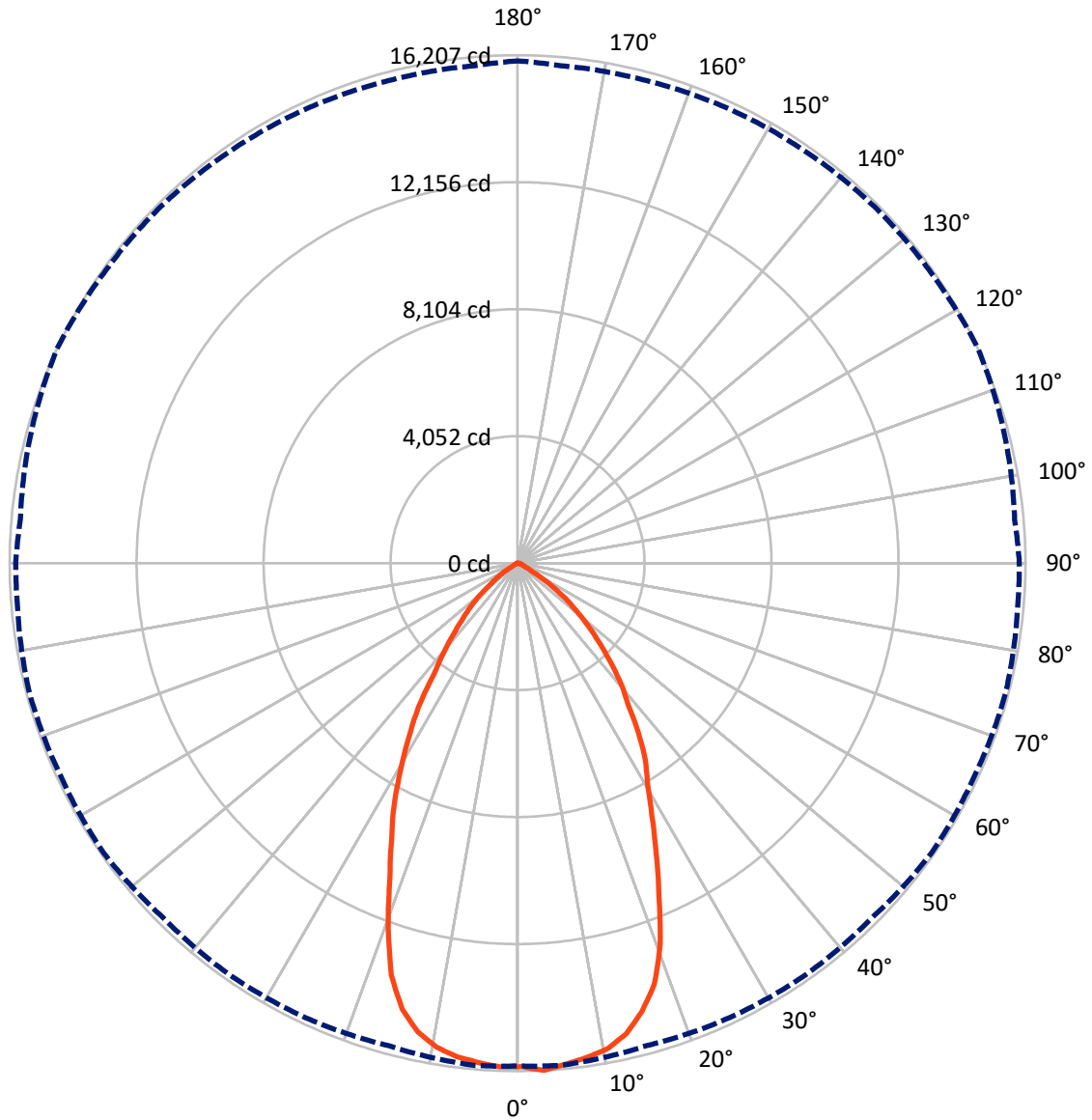
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 40.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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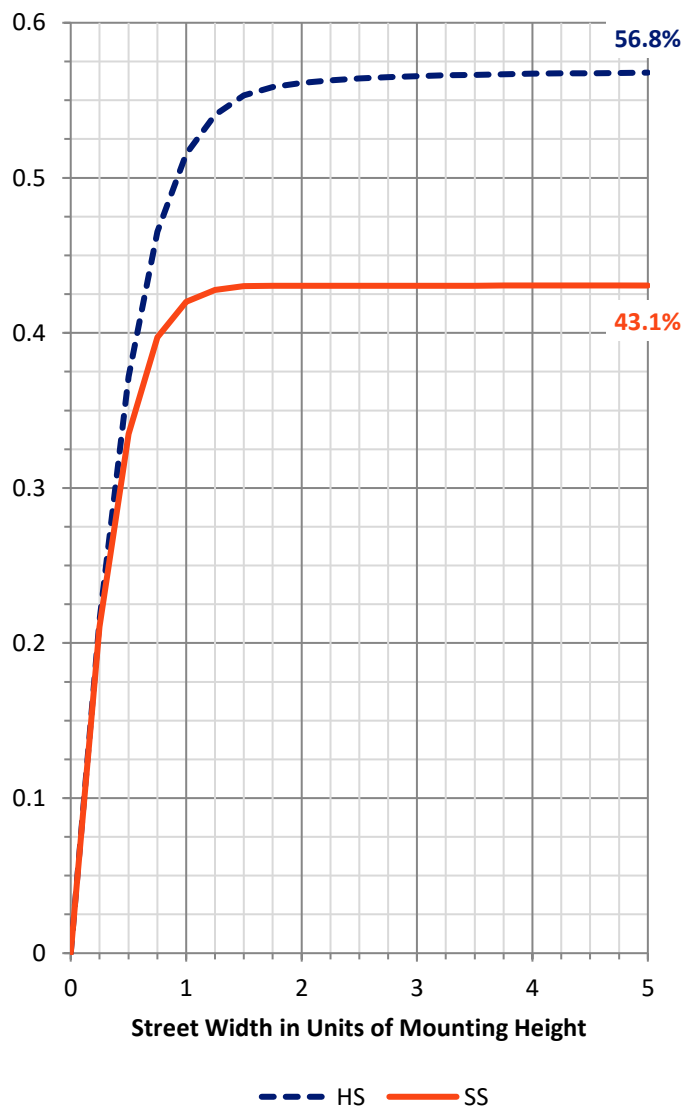
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10364.5	0.0	10364.5
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	7746.1	0.0	7746.1
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	18110.7	0.0	18110.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1513.5	8.4
10°-20°	4013.0	22.2
20°-30°	4590.0	25.3
30°-40°	3933.5	21.7
40°-50°	2601.0	14.4
50°-60°	1134.9	6.3
60°-70°	223.0	1.2
70°-80°	80.4	0.4
80°-90°	21.4	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°	18110.7	100.0
0°-180°	18110.7	100.0



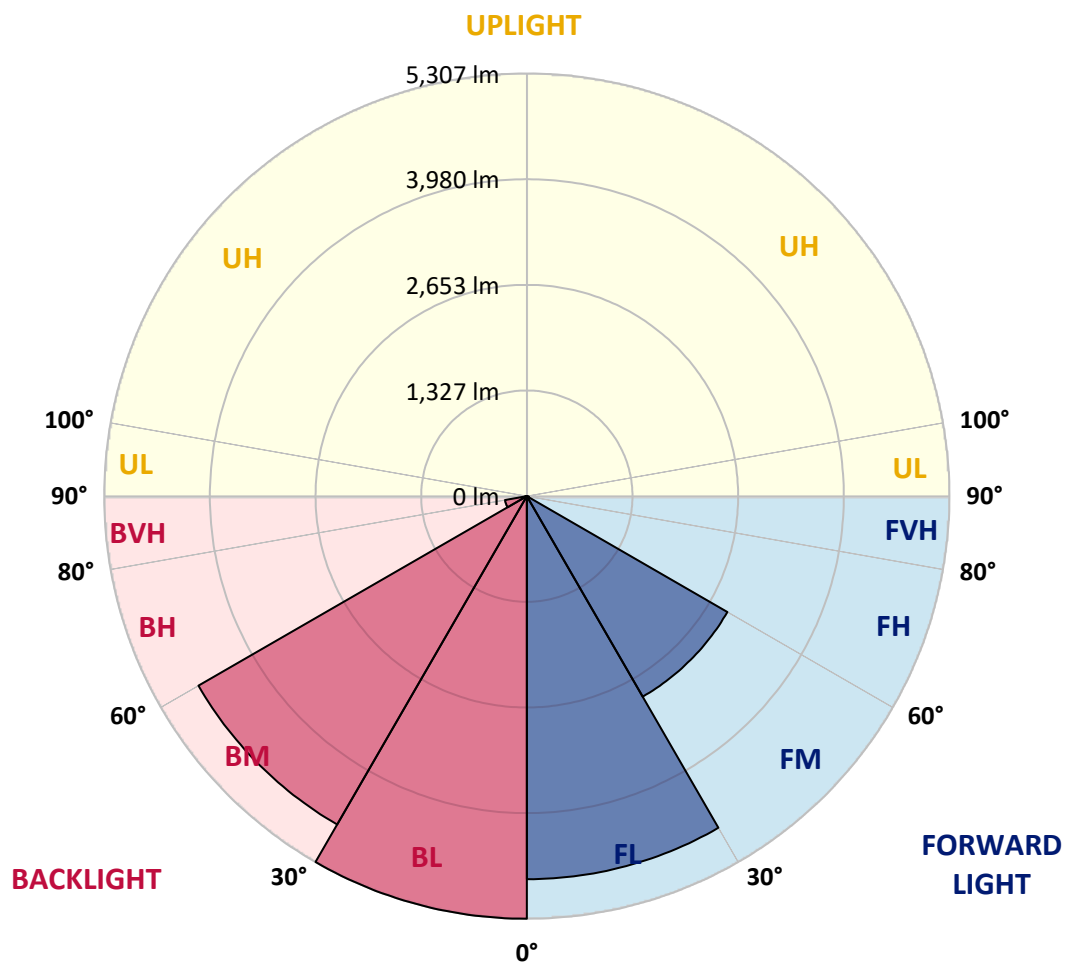
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4809.8	26.6			
FM (30°-60°)	2908.2	16.1			
FH (60°-80°)	24.6	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	5306.6	29.3	B5		
BM (30°-60°)	4761.2	26.3	B3/5000		
BH (60°-80°)	278.8	1.5	B1/500		G1/500
BVH (80°-90°)	17.8	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°	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8
2.5°	16045.7	16084.2	15937.9	16003.3	16030.3	15995.6	16122.7	16084.2	16115.0	16018.7
5°	16045.7	16084.2	15914.8	15945.6	15953.3	15887.8	16026.4	15980.2	15984.1	15884.0
7.5°	15945.6	15991.8	15837.8	15860.9	15864.7	15810.8	15930.2	15864.7	15841.6	15737.7
10°	15676.1	15703.0	15564.4	15622.2	15676.1	15626.0	15730.0	15656.8	15656.8	15564.4
12.5°	15248.8	15298.8	15144.8	15214.1	15260.3	15202.6	15321.9	15295.0	15298.8	15206.4
15°	14471.1	14297.9	14482.7	14621.3	14625.1	14613.6	14725.2	14698.3	14717.5	14578.9
17.5°	10690.7	10648.3	10863.9	12500.1	13716.6	13882.1	13901.4	13755.1	13689.6	13554.9
20°	9905.3	9936.1	9889.9	9897.6	10856.2	12846.5	12727.2	12365.3	12199.8	12065.0
22.5°	9331.7	9281.7	9250.9	9231.6	9258.6	10556.0	11414.4	10867.8	10779.2	10713.8
25°	8708.1	8685.0	8646.5	8638.8	8623.4	8404.0	9639.7	9689.8	9547.3	9466.5
27.5°	8126.8	8111.4	8069.0	8065.2	7888.1	7356.8	7491.6	8681.1	8642.6	8611.8
30°	7507.0	7476.2	7453.1	7453.1	6918.0	6371.3	6151.9	7568.6	7568.6	7541.6
32.5°	6833.3	6806.3	6814.0	6721.6	6082.6	5582.1	5235.6	6533.0	6937.2	6914.1
35°	4177.0	4169.3	4950.7	5978.6	5227.9	4773.7	4750.6	5589.8	6178.8	6240.4
37.5°	3718.8	3695.7	3707.3	3772.7	4477.2	4296.3	4288.6	4431.0	5258.7	5289.5
40°	3337.7	3322.3	3310.8	3075.9	2852.6	3834.3	3807.4	3715.0	4492.6	4546.5
42.5°	2975.8	2960.4	2960.4	2629.4	2267.5	3152.9	3164.5	3056.7	3788.1	3807.4
45°	2602.4	2590.9	2525.4	2098.1	1994.2	2094.3	2621.7	2498.5	3006.6	3206.8
47.5°	1228.1	1220.4	1767.0	1743.9	1736.2	1674.6	2001.9	2071.2	2386.8	2587.0
50°	985.5	977.8	931.6	820.0	1428.2	1270.4	1443.6	1593.8	1693.9	1878.7
52.5°	816.1	808.4	712.2	631.4	793.0	927.8	862.3	1066.4	1062.5	1262.7
55°	535.1	496.6	546.7	515.9	415.8	673.7	658.3	808.4	789.2	962.4
57.5°	11.5	11.5	26.9	292.6	261.8	284.9	377.3	462.0	519.7	569.8
60°	3.8	3.8	7.7	15.4	107.8	119.3	146.3	169.4	238.7	296.4
62.5°	0.0	0.0	3.8	7.7	15.4	61.6	69.3	80.8	111.6	154.0
65°	0.0	0.0	0.0	3.8	7.7	15.4	23.1	50.0	69.3	88.5
67.5°	0.0	0.0	0.0	3.8	3.8	7.7	15.4	23.1	30.8	61.6
70°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	15.4	23.1	30.8
72.5°	0.0	0.0	0.0	3.8	3.8	11.5	7.7	11.5	15.4	19.2
75°	0.0	0.0	0.0	3.8	3.8	3.8	7.7	11.5	11.5	15.4
77.5°	0.0	0.0	0.0	3.8	7.7	7.7	7.7	7.7	7.7	11.5
80°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	15.4	7.7	7.7
82.5°	0.0	0.0	0.0	7.7	3.8	15.4	23.1	19.2	7.7	3.8
85°	0.0	0.0	0.0	3.8	15.4	19.2	19.2	11.5	3.8	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	11.5	3.8	3.8
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°
16068.8	0°	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8	16068.8
16011.0	2.5°	15922.5	16072.6	16207.4	16122.7	16091.9	16030.3	15984.1	15934.0	15930.2
15872.4	5°	15783.9	15926.3	16057.2	15957.1	15964.8	15934.0	15903.2	15891.7	15899.4
15730.0	7.5°	15664.5	15783.9	15926.3	15841.6	15864.7	15845.5	15830.1	15807.0	15841.6
15545.2	10°	15483.6	15591.4	15756.9	15676.1	15664.5	15645.3	15629.9	15587.5	15606.8
15210.3	12.5°	15087.1	15221.8	15410.5	15318.1	15348.9	15295.0	15271.9	15244.9	15248.8
14629.0	15°	14548.1	14652.1	14844.5	14771.4	14794.5	14759.9	14759.9	14759.9	14786.8
13574.1	17.5°	13608.8	13820.5	14124.7	14032.3	14066.9	14074.6	14066.9	14093.9	14128.5
12072.7	20°	12080.4	12442.3	12996.7	13177.6	13250.8	13254.6	13200.7	13266.2	13335.5
10667.6	22.5°	10675.3	11056.4	11545.3	12041.9	12349.9	12334.5	12342.2	12384.6	12457.7
9416.4	25°	9458.8	9824.5	10267.2	10709.9	11383.6	11522.2	11526.1	11564.6	11622.3
8561.8	27.5°	8581.0	8723.5	9127.7	9574.3	10298.0	10740.7	10717.6	10752.3	10813.9
7491.6	30°	7522.4	8069.0	8161.4	8434.8	9058.4	9870.7	9874.6	9913.0	9974.6
6860.2	32.5°	6841.0	7202.8	7487.7	7495.4	8026.7	8862.1	9027.6	9066.1	9108.5
6205.8	35°	6201.9	6244.3	6629.2	6737.0	7045.0	7872.7	8165.3	8188.4	8257.7
5278.0	37.5°	5366.5	5616.8	5724.5	6109.5	6124.9	6794.8	7376.1	7353.0	7406.9
4542.7	40°	4600.4	4839.1	5112.4	5393.5	5432.0	5932.4	6575.3	6598.4	6621.5
3768.9	42.5°	3799.7	4103.8	4384.8	4573.5	4835.3	5124.0	5736.1	5843.9	5897.8
3229.9	45°	3287.7	3372.4	3707.3	3984.5	4250.1	4384.8	4958.4	5154.8	5189.4
2556.2	47.5°	2590.9	2875.7	3102.9	3337.7	3668.8	3788.1	4203.9	4477.2	4504.2
1897.9	50°	2001.9	2205.9	2517.7	2729.5	3114.4	3179.9	3464.8	3818.9	3853.6
1270.4	52.5°	1432.1	1709.3	2013.4	2217.4	2587.0	2671.7	2883.4	3222.2	3245.3
974.0	55°	1027.9	1208.8	1459.0	1751.6	2021.1	2209.7	2356.0	2679.4	2710.2
639.1	57.5°	700.7	870.0	974.0	1266.6	1428.2	1632.3	1751.6	1998.0	2021.1
304.1	60°	334.9	415.8	496.6	642.9	746.8	920.1	997.1	1097.2	1124.1
184.8	62.5°	215.6	254.1	323.4	385.0	485.1	592.9	623.7	708.3	739.1
115.5	65°	142.4	180.9	254.1	269.5	369.6	454.3	492.8	554.4	589.0
69.3	67.5°	80.8	127.0	188.6	223.3	292.6	373.4	415.8	469.7	500.5
46.2	70°	53.9	103.9	150.1	184.8	231.0	300.3	354.2	400.4	419.6
23.1	72.5°	30.8	65.4	103.9	146.3	184.8	250.2	300.3	338.8	223.3
15.4	75°	19.2	50.0	88.5	123.2	154.0	200.2	242.5	238.7	100.1
11.5	77.5°	15.4	38.5	77.0	103.9	127.0	138.6	173.2	196.3	77.0
7.7	80°	11.5	30.8	69.3	88.5	50.0	100.1	134.7	146.3	53.9
7.7	82.5°	7.7	19.2	57.7	61.6	34.6	73.1	107.8	96.2	38.5
3.8	85°	3.8	11.5	19.2	34.6	30.8	34.6	26.9	38.5	26.9
3.8	87.5°	3.8	7.7	15.4	15.4	15.4	11.5	15.4	15.4	15.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
16068.8
16022.6
15995.6
15937.9
15699.2
15360.4
14798.4
14244.0
13381.7
12469.3
11722.4
10871.6
10082.4
9204.7
8330.8
7472.3
6694.7
5974.8
5274.1
4569.6
3903.6
3287.7
2737.2
2067.3
1154.9
746.8
589.0
496.6
415.8
180.9
100.1
77.0
57.7
38.5
26.9
15.4
0.0

(END OF REPORT)