

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: P636967

Luminaire Tested: **IFLD-L-SA8C-940-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636967  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-940-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26982.8 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

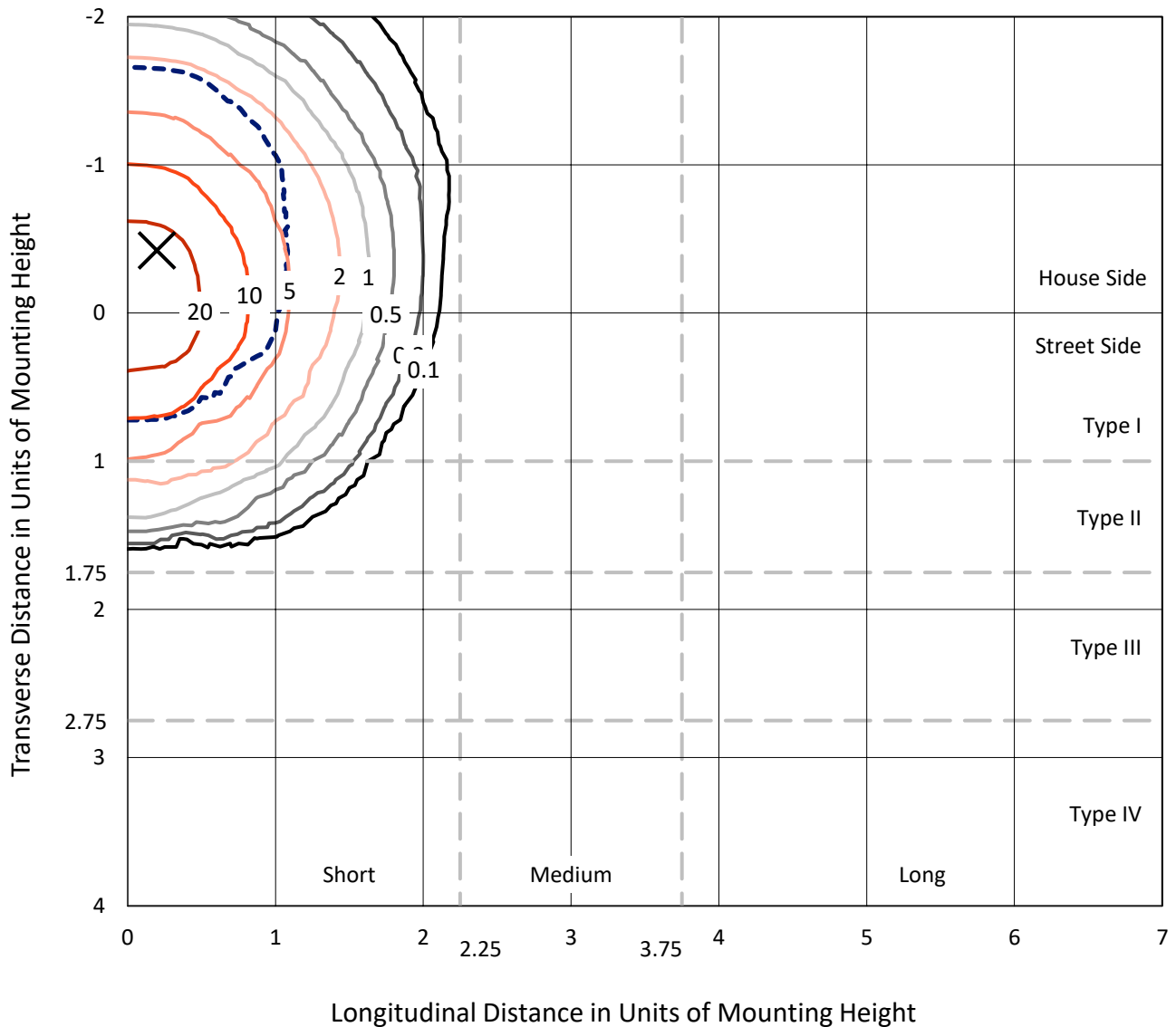
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

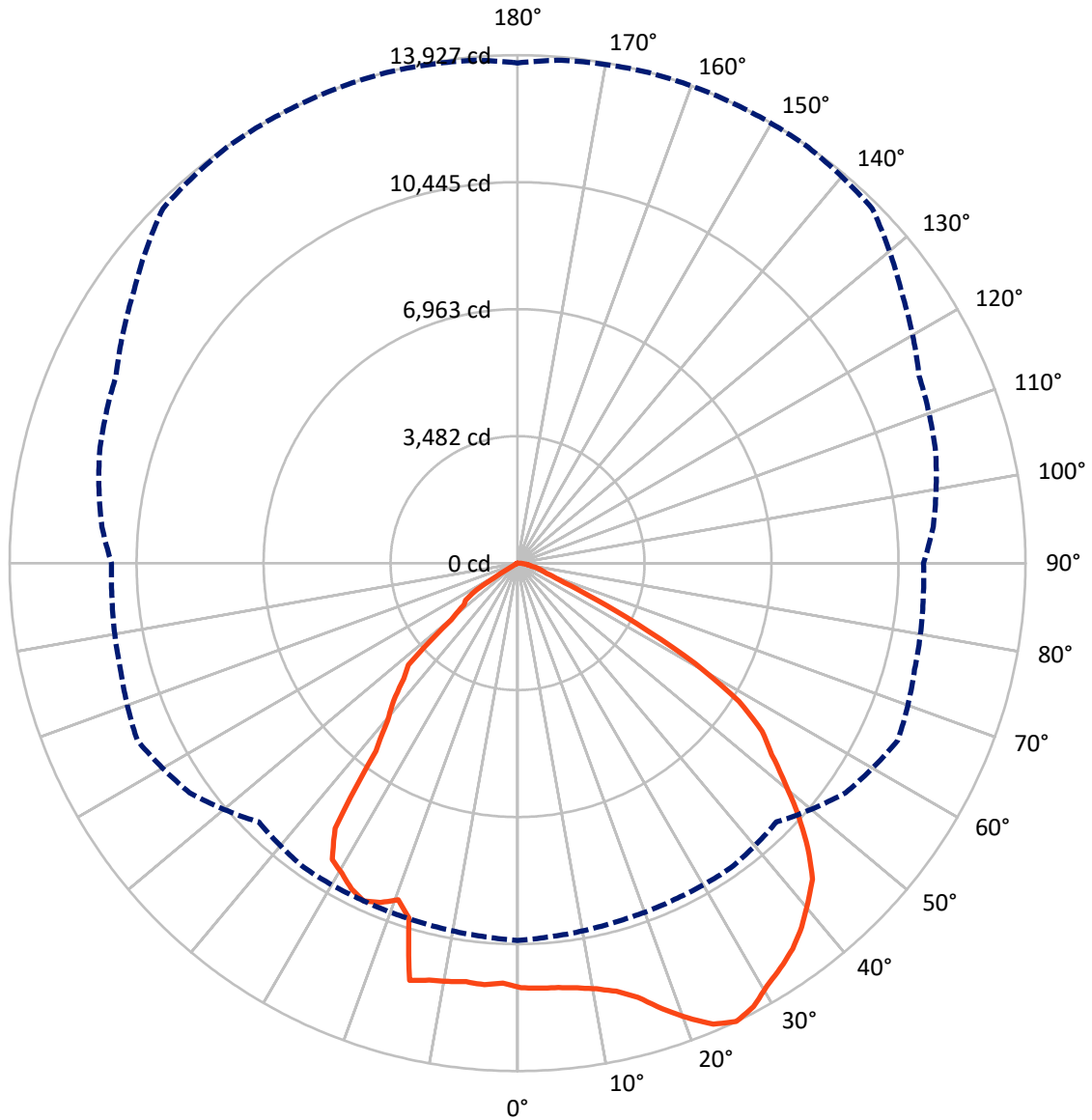
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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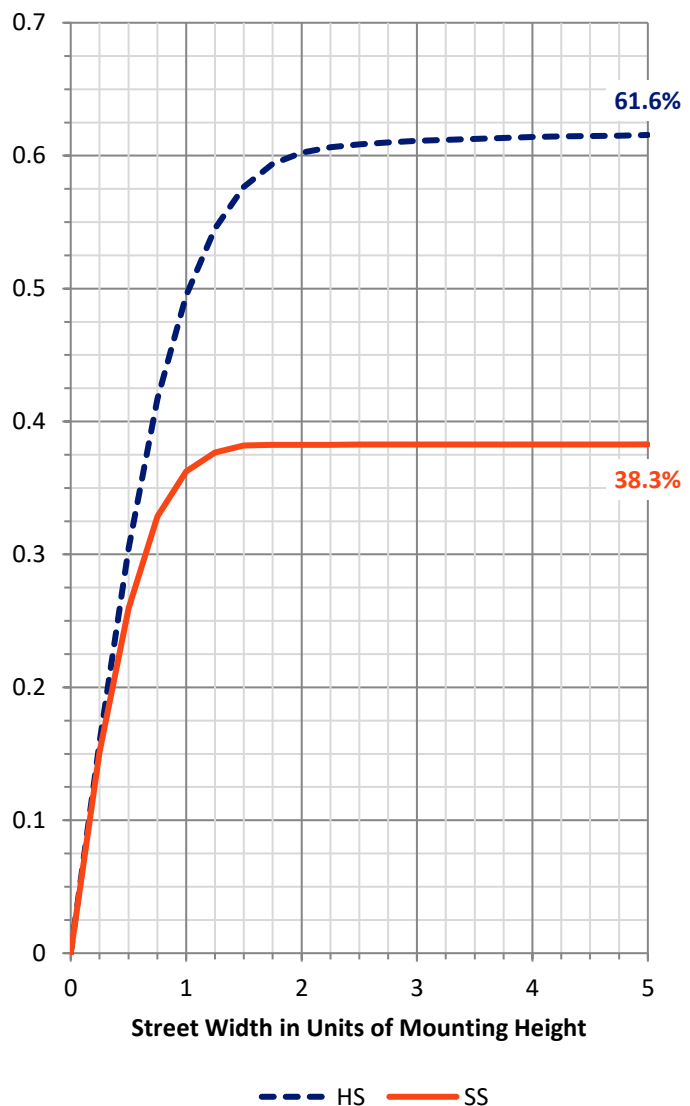
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16705.1	0.0	16705.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10277.7	0.0	10277.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	26982.8	0.0	26982.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1117.0	4.1
10°-20°	3410.6	12.6
20°-30°	5391.9	20.0
30°-40°	6090.6	22.6
40°-50°	5704.0	21.1
50°-60°	3932.5	14.6
60°-70°	1056.5	3.9
70°-80°	220.2	0.8
80°-90°	59.6	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°	26982.8	100.0
0°-180°	26982.8	100.0



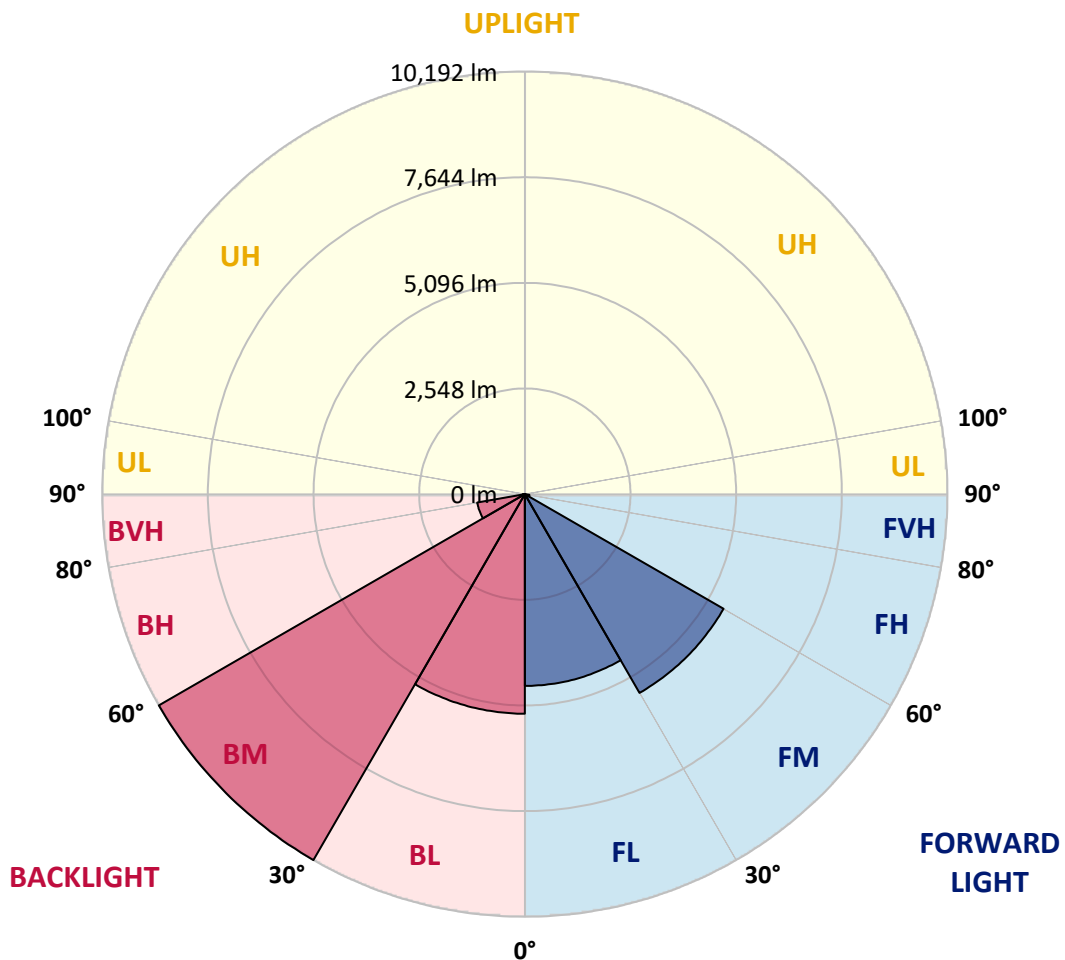
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4624.0	17.1			
FM (30°-60°)	5534.8	20.5			
FH (60°-80°)	110.9	0.4			G0/660
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	5295.4	19.6	B5		
BM (30°-60°)	10192.3	37.8	B5		
BH (60°-80°)	1165.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	51.6	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6
2.5°	11694.1	11618.8	11547.4	11523.6	11622.8	11729.8	11662.4	11666.4	11642.6	11686.2
5°	11781.4	11678.3	11630.7	11595.0	11610.9	11721.9	11626.7	11662.4	11622.8	11674.3
7.5°	11749.6	11678.3	11630.7	11563.3	11614.8	11745.7	11654.5	11658.4	11638.6	11686.2
10°	11729.8	11678.3	11618.8	11626.7	11686.2	11797.2	11725.9	11765.5	11737.7	11765.5
12.5°	11777.4	11721.9	11690.2	11690.2	11741.7	11868.6	11832.9	11868.6	11856.7	11880.5
15°	11329.3	11380.9	11682.2	11817.1	11920.2	12047.1	12031.2	12066.9	12074.8	12110.5
17.5°	9556.7	9505.2	9481.4	10175.4	12019.3	12411.9	12400.0	12396.0	12356.4	12328.6
20°	9790.7	9770.9	9743.1	9794.7	10000.9	12602.2	12681.5	12193.8	12051.0	12039.1
22.5°	10163.5	10131.7	10028.6	10032.6	10096.0	10956.6	12288.9	11844.8	11797.2	11769.5
25°	10345.9	10282.4	10199.2	10175.4	10195.2	10036.6	10976.4	11503.8	11269.8	11162.8
27.5°	10024.7	10028.6	9961.2	10024.7	9949.3	9235.5	8835.0	10837.6	10829.7	10782.1
30°	9782.8	9770.9	9691.6	9770.9	9251.4	8454.4	8283.8	10107.9	10024.7	9961.2
32.5°	9041.2	9049.2	9279.2	9588.5	8735.9	8105.4	7589.9	9029.3	9818.5	9782.8
35°	6467.7	6483.5	7300.4	8827.1	7954.7	7411.4	7371.8	7804.0	9493.3	9509.2
37.5°	6225.8	6225.8	6205.9	6455.8	7340.1	7129.9	7209.2	7165.6	8696.2	8735.9
40°	6051.3	6015.6	5987.8	5595.3	5103.5	6931.6	6987.1	6788.9	8220.4	8228.3
42.5°	5841.1	5801.5	5809.4	5083.7	4568.2	6439.9	6285.2	6019.6	7427.3	7435.2
45°	5456.5	5523.9	5571.5	4449.2	4409.6	4599.9	5797.5	5630.9	6892.0	7038.7
47.5°	2775.8	2835.3	4350.1	4092.4	4183.6	4088.4	4897.3	4901.3	5734.0	6221.8
50°	2518.1	2502.2	2506.2	2387.2	3862.4	3307.2	3541.2	4492.9	4592.0	5289.9
52.5°	2347.5	2343.6	2101.7	1867.7	2426.9	2910.6	2569.6	3251.7	3414.3	4481.0
55°	1736.9	1863.8	1657.6	1756.7	1518.8	2331.7	2319.8	2934.4	2990.0	3592.7
57.5°	15.9	19.8	47.6	1336.4	1050.8	1165.8	1602.0	2002.6	2101.7	2799.6
60°	4.0	7.9	19.8	39.7	682.1	717.7	1070.7	1157.9	1304.6	1669.5
62.5°	0.0	0.0	7.9	19.8	35.7	293.4	341.0	372.8	575.0	852.6
65°	0.0	0.0	4.0	11.9	19.8	47.6	83.3	174.5	249.8	309.3
67.5°	0.0	0.0	4.0	7.9	15.9	23.8	47.6	67.4	107.1	182.4
70°	0.0	0.0	4.0	7.9	11.9	19.8	31.7	47.6	63.4	91.2
72.5°	0.0	0.0	4.0	7.9	7.9	23.8	23.8	35.7	47.6	59.5
75°	0.0	0.0	4.0	4.0	7.9	15.9	23.8	27.8	31.7	47.6
77.5°	0.0	0.0	4.0	7.9	11.9	15.9	19.8	31.7	27.8	27.8
80°	0.0	0.0	4.0	11.9	11.9	19.8	23.8	31.7	19.8	19.8
82.5°	0.0	0.0	4.0	15.9	11.9	39.7	39.7	43.6	15.9	15.9
85°	0.0	0.0	11.9	7.9	23.8	39.7	35.7	23.8	19.8	11.9
87.5°	0.0	0.0	4.0	4.0	7.9	11.9	27.8	23.8	7.9	7.9
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°
11642.6	0°	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6	11642.6
11571.2	2.5°	11729.8	11678.3	11785.3	11773.4	11721.9	11698.1	11670.3	11646.5	11472.1
11579.1	5°	11733.8	11654.5	11785.3	11761.5	11753.6	11714.0	11690.2	11725.9	11567.2
11610.9	7.5°	11733.8	11654.5	11797.2	11805.2	11793.3	11761.5	11757.6	11781.4	11650.5
11666.4	10°	11813.1	11781.4	11900.3	11912.2	11896.4	11888.4	11868.6	11852.7	11714.0
11856.7	12.5°	11979.6	11916.2	12051.0	12086.7	12074.8	12094.6	12047.1	12070.8	11928.1
12051.0	15°	12181.9	12185.8	12288.9	12368.3	12360.3	12423.8	12352.4	12415.8	12312.7
12273.1	17.5°	12491.2	12534.8	12681.5	12800.5	12844.1	12891.7	12844.1	12863.9	12717.2
12027.2	20°	12166.0	12328.6	13034.5	13252.6	13343.8	13387.4	13308.1	13331.9	13185.1
11725.9	22.5°	11872.6	12082.7	12709.3	13391.3	13672.9	13760.1	13732.4	13728.4	13672.9
11131.0	25°	11440.3	11864.6	12146.2	12867.9	13752.2	13910.8	13926.7	13922.7	13839.4
10766.2	27.5°	10909.0	11004.1	11733.8	12173.9	13197.0	13799.8	13776.0	13661.0	13550.0
10008.8	30°	10230.9	10663.1	10992.2	11694.1	12479.3	13458.8	13458.8	13371.5	13256.5
9739.2	32.5°	9885.9	10445.0	10750.4	11004.1	11674.3	13078.1	13236.7	13145.5	13054.3
9529.0	35°	9703.5	9786.7	10500.5	10730.5	11297.6	12344.5	12986.9	12895.7	12828.2
8969.9	37.5°	9303.0	9497.3	9830.4	10445.0	10619.5	11745.7	12653.8	12606.2	12526.9
8244.2	40°	8410.7	8930.2	9441.7	10024.7	10207.1	10976.4	12249.3	12269.1	12162.1
7470.9	42.5°	7883.3	8236.3	9037.3	9429.9	9921.6	10480.7	11856.7	11888.4	11813.1
7078.3	45°	7264.7	7657.3	8220.4	8934.2	9604.3	9798.6	11162.8	11495.9	11432.4
6297.1	47.5°	6697.7	7014.9	7704.9	8426.6	9168.1	9140.4	10365.7	10992.2	10905.0
5698.4	50°	5892.7	6447.8	6773.0	7435.2	8541.6	8616.9	9517.1	10401.4	10330.0
4841.8	52.5°	4968.7	5666.6	6289.2	6895.9	7907.1	8085.6	8728.0	9798.6	9751.1
3699.8	55°	4342.2	4849.8	5551.6	6039.4	7137.8	7613.7	8137.1	9223.6	9199.9
3041.5	57.5°	3089.1	4068.6	4647.5	5329.6	5908.5	6769.0	7157.6	8053.8	7831.8
1685.3	60°	2093.8	2553.8	3259.6	3993.2	4381.8	5242.3	5603.2	6320.9	6261.5
1007.2	62.5°	1106.4	1530.7	2034.3	2403.1	2684.6	3521.3	3672.0	4445.3	4425.4
404.5	65°	487.8	646.4	1102.4	1292.7	1582.2	1970.8	2101.7	2379.3	2311.9
198.3	67.5°	253.8	384.6	622.6	765.3	963.6	1110.3	1217.4	1304.6	1360.2
130.9	70°	154.7	281.5	384.6	531.4	662.2	781.2	864.5	983.4	1054.8
67.4	72.5°	115.0	178.4	265.7	408.4	479.8	618.6	701.9	789.1	852.6
55.5	75°	63.4	119.0	214.1	321.2	384.6	503.6	579.0	638.4	658.3
31.7	77.5°	39.7	91.2	178.4	249.8	301.4	408.4	388.6	444.1	491.7
23.8	80°	27.8	67.4	138.8	206.2	210.2	261.7	309.3	356.9	388.6
15.9	82.5°	19.8	55.5	103.1	158.6	138.8	202.2	241.9	277.6	202.2
11.9	85°	15.9	39.7	51.6	95.2	79.3	142.8	122.9	119.0	79.3
7.9	87.5°	11.9	19.8	35.7	43.6	31.7	31.7	39.7	47.6	39.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11642.6  
11353.1  
11432.4  
11499.8  
11599.0  
11801.2  
12142.2  
12590.3  
13082.0  
13494.4  
*13712.5*  
13462.7  
13212.9  
12978.9  
12733.1  
12447.6  
12138.3  
11805.2  
11440.3  
10968.5  
10341.9  
9782.8  
9227.6  
7808.0  
6265.4  
4429.4  
2284.1  
1360.2  
1058.8  
864.5  
646.4  
499.6  
392.6  
146.7  
79.3  
39.7  
0.0

(END OF REPORT)