

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: P638372

Luminaire Tested: **IFLD-S-SA6B-730-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638372  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-730-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22402.6 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

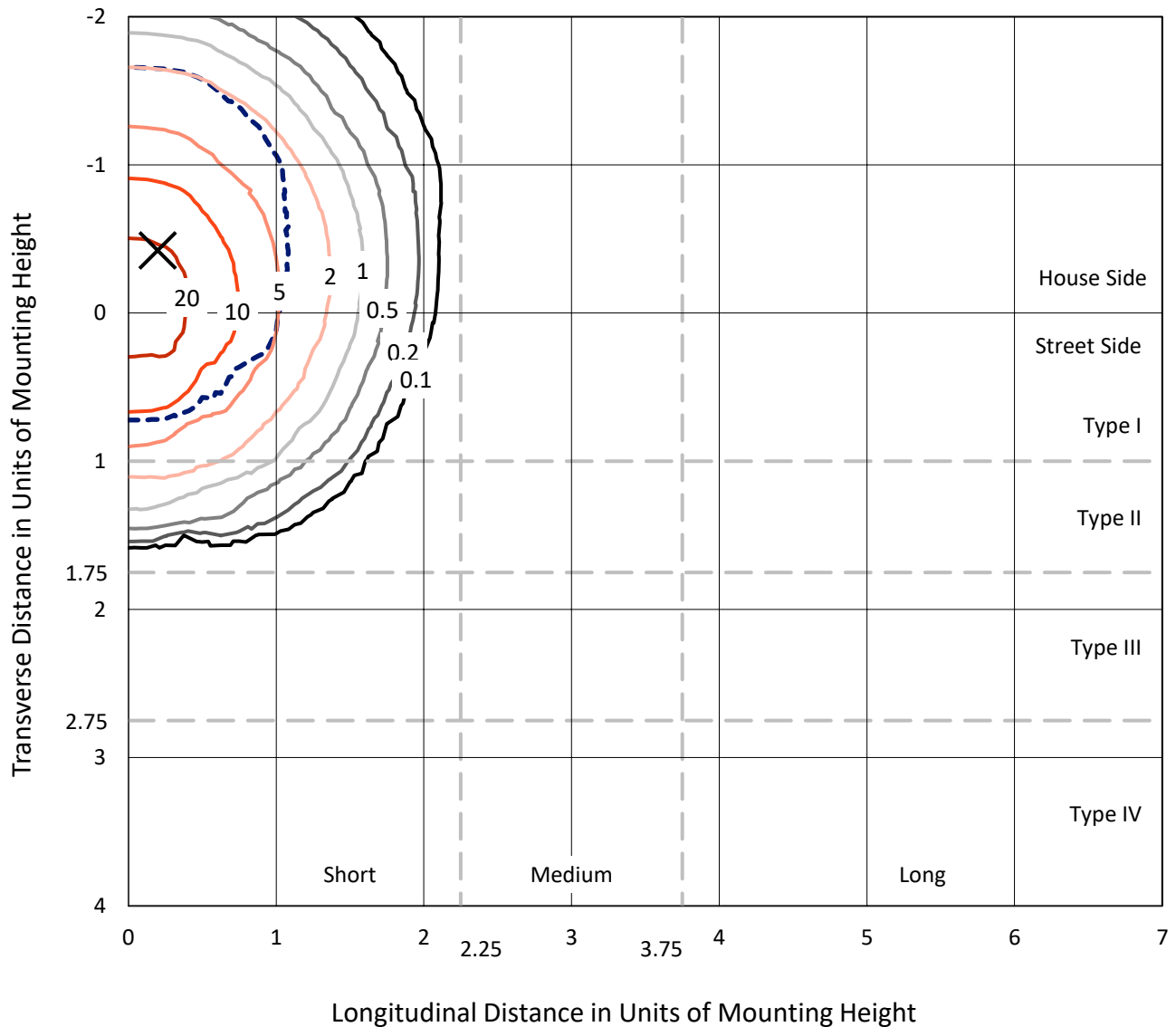
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

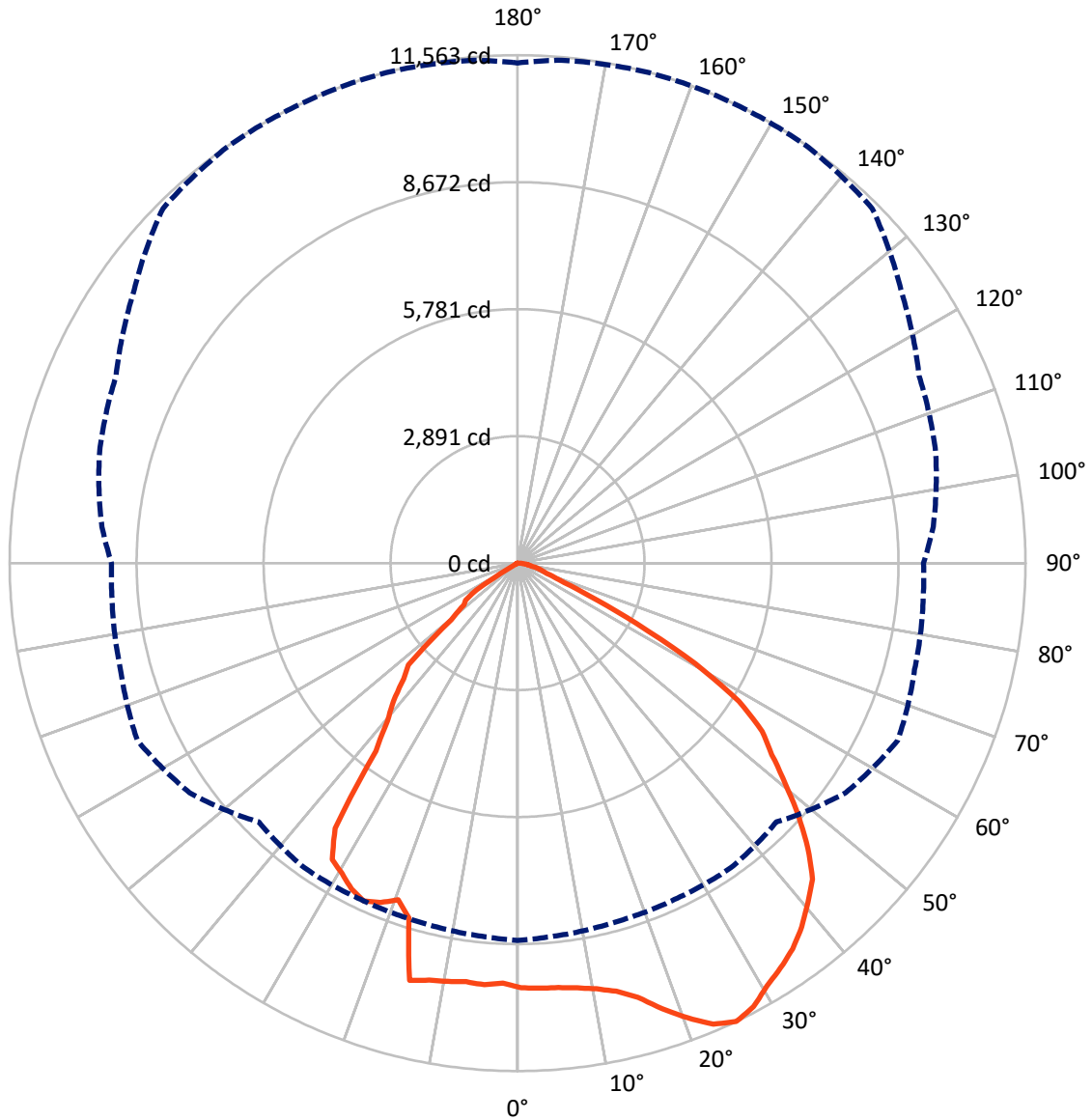
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.2 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	13869.5	0.0	13869.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	8533.1	0.0	8533.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	22402.6	0.0	22402.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	927.4	4.1
10°-20°	2831.6	12.6
20°-30°	4476.7	20.0
30°-40°	5056.8	22.6
40°-50°	4735.8	21.1
50°-60°	3265.0	14.6
60°-70°	877.2	3.9
70°-80°	182.8	0.8
80°-90°	49.5	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°	22402.6	100.0
0°-180°	22402.6	100.0



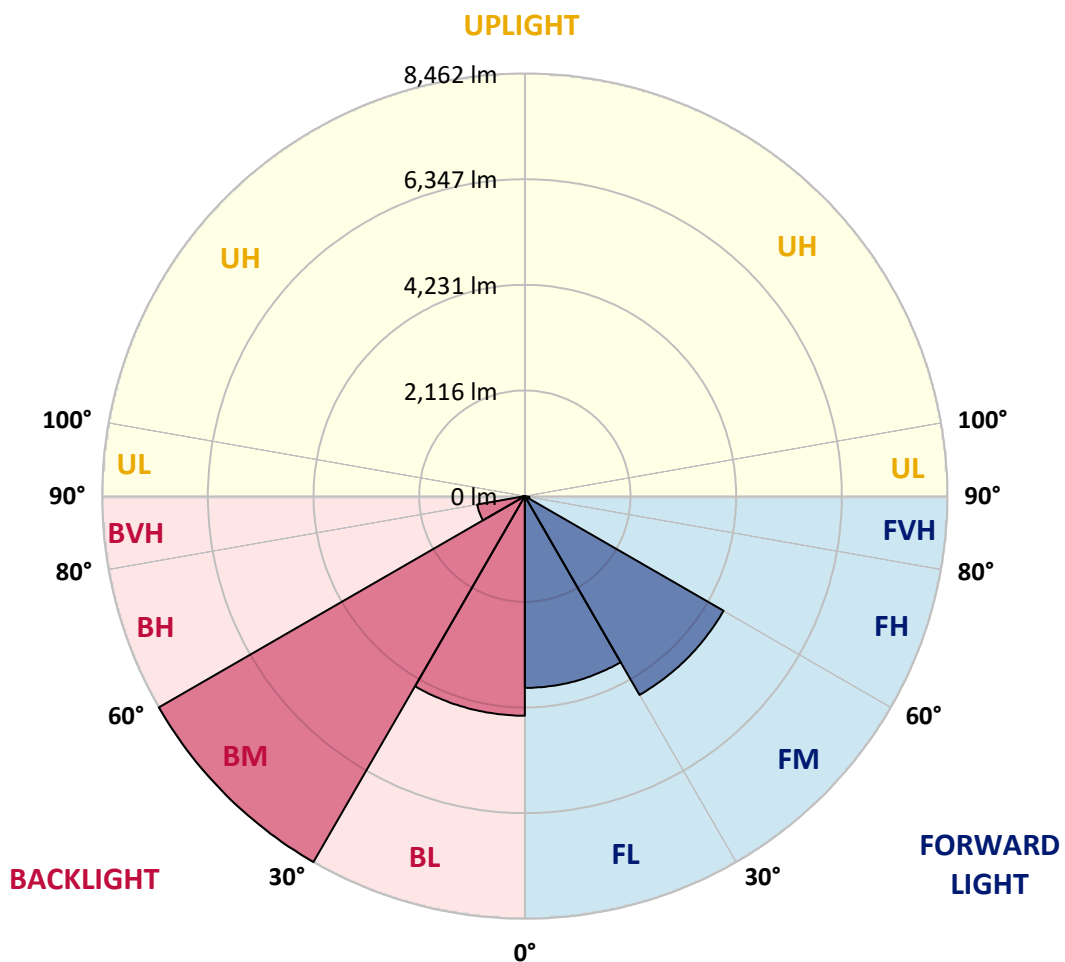
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3839.1	17.1			
FM	(30°-60°)	4595.3	20.5			
FH	(60°-80°)	92.1	0.4			G0/660
FVH	(80°-90°)	6.6	0.0			G0/10
BL	(0°-30°)	4396.6	19.6	B4/5000		
BM	(30°-60°)	8462.2	37.8	B4/8500		
BH	(60°-80°)	967.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	42.8	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3
2.5°	9709.1	9646.6	9587.3	9567.6	9649.9	9738.8	9682.8	9686.1	9666.3	9702.5
5°	9781.6	9696.0	9656.5	9626.8	9640.0	9732.2	9653.2	9682.8	9649.9	9692.7
7.5°	9755.2	9696.0	9656.5	9600.5	9643.3	9751.9	9676.2	9679.5	9663.0	9702.5
10°	9738.8	9696.0	9646.6	9653.2	9702.5	9794.7	9735.5	9768.4	9745.3	9768.4
12.5°	9778.3	9732.2	9705.8	9705.8	9748.6	9854.0	9824.4	9854.0	9844.1	9863.9
15°	9406.2	9449.0	9699.3	9811.2	9896.8	10002.2	9989.0	10018.6	10025.2	10054.8
17.5°	7934.6	7891.8	7872.0	8448.2	9979.1	10305.0	10295.2	10291.9	10259.0	10235.9
20°	8128.8	8112.3	8089.3	8132.1	8303.3	10463.1	10528.9	10124.0	10005.4	9995.6
22.5°	8438.3	8411.9	8326.3	8329.6	8382.3	9096.8	10203.0	9834.2	9794.7	9771.7
25°	8589.7	8537.1	8467.9	8448.2	8464.6	8332.9	9113.2	9551.1	9356.9	9268.0
27.5°	8323.1	8326.3	8270.4	8323.1	8260.5	7667.9	7335.3	8998.0	8991.4	8951.9
30°	8122.2	8112.3	8046.5	8112.3	7681.0	7019.3	6877.7	8392.2	8323.1	8270.4
32.5°	7506.6	7513.1	7704.1	7960.9	7253.0	6729.6	6301.6	7496.7	8151.9	8122.2
35°	5369.8	5383.0	6061.2	7328.8	6604.4	6153.4	6120.5	6479.3	7881.9	7895.0
37.5°	5169.0	5169.0	5152.5	5359.9	6094.1	5919.6	5985.5	5949.3	7220.1	7253.0
40°	5024.1	4994.5	4971.4	4645.5	4237.3	5755.0	5801.1	5636.5	6825.0	6831.6
42.5°	4849.6	4816.7	4823.3	4220.8	3792.8	5346.8	5218.4	4997.8	6166.6	6173.2
45°	4530.3	4586.2	4625.7	3694.0	3661.1	3819.1	4813.4	4675.1	5722.1	5843.9
47.5°	2304.6	2354.0	3611.7	3397.7	3473.4	3394.4	4066.0	4069.3	4760.7	5165.7
50°	2090.6	2077.5	2080.8	1982.0	3206.7	2745.8	2940.1	3730.2	3812.5	4392.0
52.5°	1949.1	1945.8	1744.9	1550.7	2014.9	2416.6	2133.4	2699.7	2834.7	3720.4
55°	1442.0	1547.4	1376.2	1458.5	1261.0	1935.9	1926.0	2436.3	2482.4	2982.9
57.5°	13.2	16.5	39.5	1109.5	872.5	968.0	1330.1	1662.6	1744.9	2324.4
60°	3.3	6.6	16.5	32.9	566.3	595.9	888.9	961.4	1083.2	1386.1
62.5°	0.0	0.0	6.6	16.5	29.6	243.6	283.1	309.5	477.4	707.9
65°	0.0	0.0	3.3	9.9	16.5	39.5	69.1	144.9	207.4	256.8
67.5°	0.0	0.0	3.3	6.6	13.2	19.8	39.5	56.0	88.9	151.4
70°	0.0	0.0	3.3	6.6	9.9	16.5	26.3	39.5	52.7	75.7
72.5°	0.0	0.0	3.3	6.6	6.6	19.8	19.8	29.6	39.5	49.4
75°	0.0	0.0	3.3	3.3	6.6	13.2	19.8	23.0	26.3	39.5
77.5°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	26.3	23.0	23.0
80°	0.0	0.0	3.3	9.9	9.9	16.5	19.8	26.3	16.5	16.5
82.5°	0.0	0.0	3.3	13.2	9.9	32.9	32.9	36.2	13.2	13.2
85°	0.0	0.0	9.9	6.6	19.8	32.9	29.6	19.8	16.5	9.9
87.5°	0.0	0.0	3.3	3.3	6.6	9.9	23.0	19.8	6.6	6.6
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°
9666.3	0°	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3	9666.3
9607.1	2.5°	9738.8	9696.0	9784.9	9775.0	9732.2	9712.4	9689.4	9669.6	9524.8
9613.7	5°	9742.1	9676.2	9784.9	9765.1	9758.5	9725.6	9705.8	9735.5	9603.8
9640.0	7.5°	9742.1	9676.2	9794.7	9801.3	9791.4	9765.1	9761.8	9781.6	9672.9
9686.1	10°	9807.9	9781.6	9880.3	9890.2	9877.0	9870.5	9854.0	9840.8	9725.6
9844.1	12.5°	9946.2	9893.5	10005.4	10035.1	10025.2	10041.7	10002.2	10021.9	9903.4
10005.4	15°	10114.1	10117.4	10203.0	10268.8	10262.2	10314.9	10255.7	10308.3	10222.7
10189.8	17.5°	10370.9	10407.1	10528.9	10627.7	10663.9	10703.4	10663.9	10680.4	10558.6
9985.7	20°	10100.9	10235.9	10821.9	11003.0	11078.7	11115.0	11049.1	11068.9	10947.1
9735.5	22.5°	9857.3	10031.8	10552.0	11118.3	11352.0	11424.4	11401.4	11398.1	11352.0
9241.6	25°	9498.4	9850.7	10084.5	10683.7	11417.9	11549.6	11562.7	11559.4	11490.3
8938.7	27.5°	9057.2	9136.3	9742.1	10107.5	10956.9	11457.4	11437.6	11342.1	11250.0
8309.9	30°	8494.3	8853.1	9126.4	9709.1	10361.0	11174.2	11174.2	11101.8	11006.3
8086.0	32.5°	8207.8	8672.0	8925.6	9136.3	9692.7	10858.2	10989.9	10914.1	10838.4
7911.5	35°	8056.4	8125.5	8718.1	8909.1	9379.9	10249.1	10782.4	10706.7	10650.7
7447.3	37.5°	7723.8	7885.2	8161.7	8672.0	8816.9	9751.9	10505.9	10466.4	10400.5
6844.8	40°	6983.1	7414.4	7839.1	8323.1	8474.5	9113.2	10170.1	10186.5	10097.6
6202.8	42.5°	6545.2	6838.2	7503.3	7829.2	8237.5	8701.7	9844.1	9870.5	9807.9
5876.8	45°	6031.6	6357.5	6825.0	7417.7	7974.1	8135.4	9268.0	9544.5	9491.8
5228.2	47.5°	5560.8	5824.2	6397.0	6996.2	7611.9	7588.9	8606.2	9126.4	9054.0
4731.1	50°	4892.4	5353.4	5623.3	6173.2	7091.7	7154.3	7901.6	8635.8	8576.6
4020.0	52.5°	4125.3	4704.8	5221.7	5725.4	6564.9	6713.1	7246.5	8135.4	8095.9
3071.8	55°	3605.1	4026.5	4609.3	5014.2	5926.2	6321.3	6755.9	7658.0	7638.2
2525.2	57.5°	2564.7	3377.9	3858.6	4424.9	4905.6	5620.0	5942.7	6686.8	6502.4
1399.2	60°	1738.4	2120.3	2706.3	3315.4	3638.0	4352.5	4652.1	5248.0	5198.6
836.3	62.5°	918.6	1270.8	1689.0	1995.2	2228.9	2923.6	3048.7	3690.7	3674.3
335.8	65°	405.0	536.7	915.3	1073.3	1313.6	1636.3	1744.9	1975.4	1919.4
164.6	67.5°	210.7	319.4	516.9	635.4	800.0	921.9	1010.8	1083.2	1129.3
108.6	70°	128.4	233.8	319.4	441.2	549.8	648.6	717.7	816.5	875.8
56.0	72.5°	95.5	148.2	220.6	339.1	398.4	513.6	582.7	655.2	707.9
46.1	75°	52.7	98.8	177.8	266.7	319.4	418.1	480.7	530.1	546.5
26.3	77.5°	32.9	75.7	148.2	207.4	250.2	339.1	322.7	368.7	408.3
19.8	80°	23.0	56.0	115.2	171.2	174.5	217.3	256.8	296.3	322.7
13.2	82.5°	16.5	46.1	85.6	131.7	115.2	167.9	200.8	230.5	167.9
9.9	85°	13.2	32.9	42.8	79.0	65.8	118.5	102.1	98.8	65.8
6.6	87.5°	9.9	16.5	29.6	36.2	26.3	26.3	32.9	39.5	32.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
9666.3  
9426.0  
9491.8  
9547.8  
9630.1  
9798.0  
10081.2  
10453.2  
10861.5  
11203.9  
*11384.9*  
11177.5  
10970.1  
10775.9  
10571.7  
10334.7  
10077.9  
9801.3  
9498.4  
9106.6  
8586.4  
8122.2  
7661.3  
6482.6  
5201.9  
3677.6  
1896.4  
1129.3  
879.1  
717.7  
536.7  
414.8  
325.9  
121.8  
65.8  
32.9  
0.0

(END OF REPORT)