

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: P638417

Luminaire Tested: **IFLD-L-SA8C-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638417  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36829.6 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

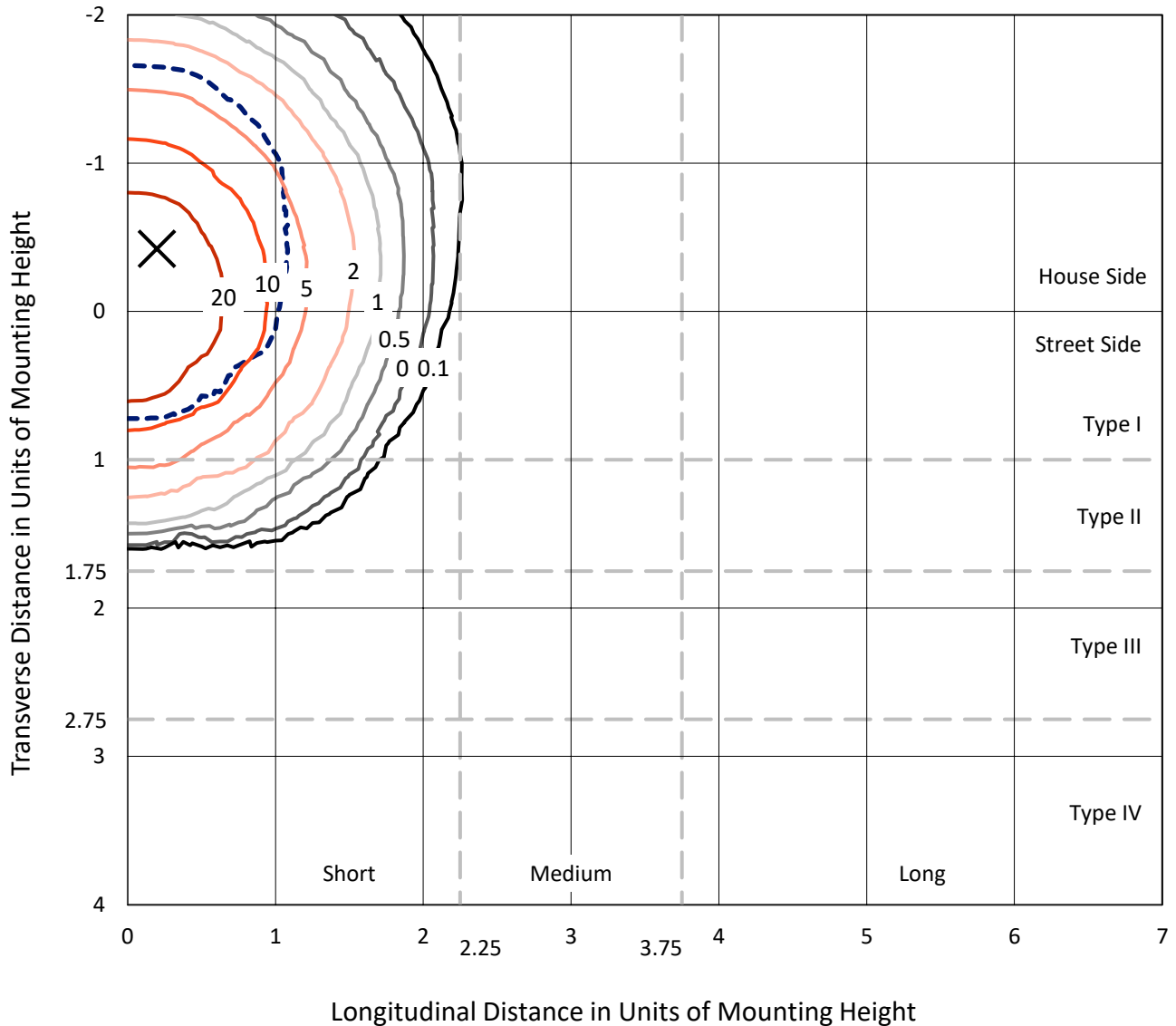
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

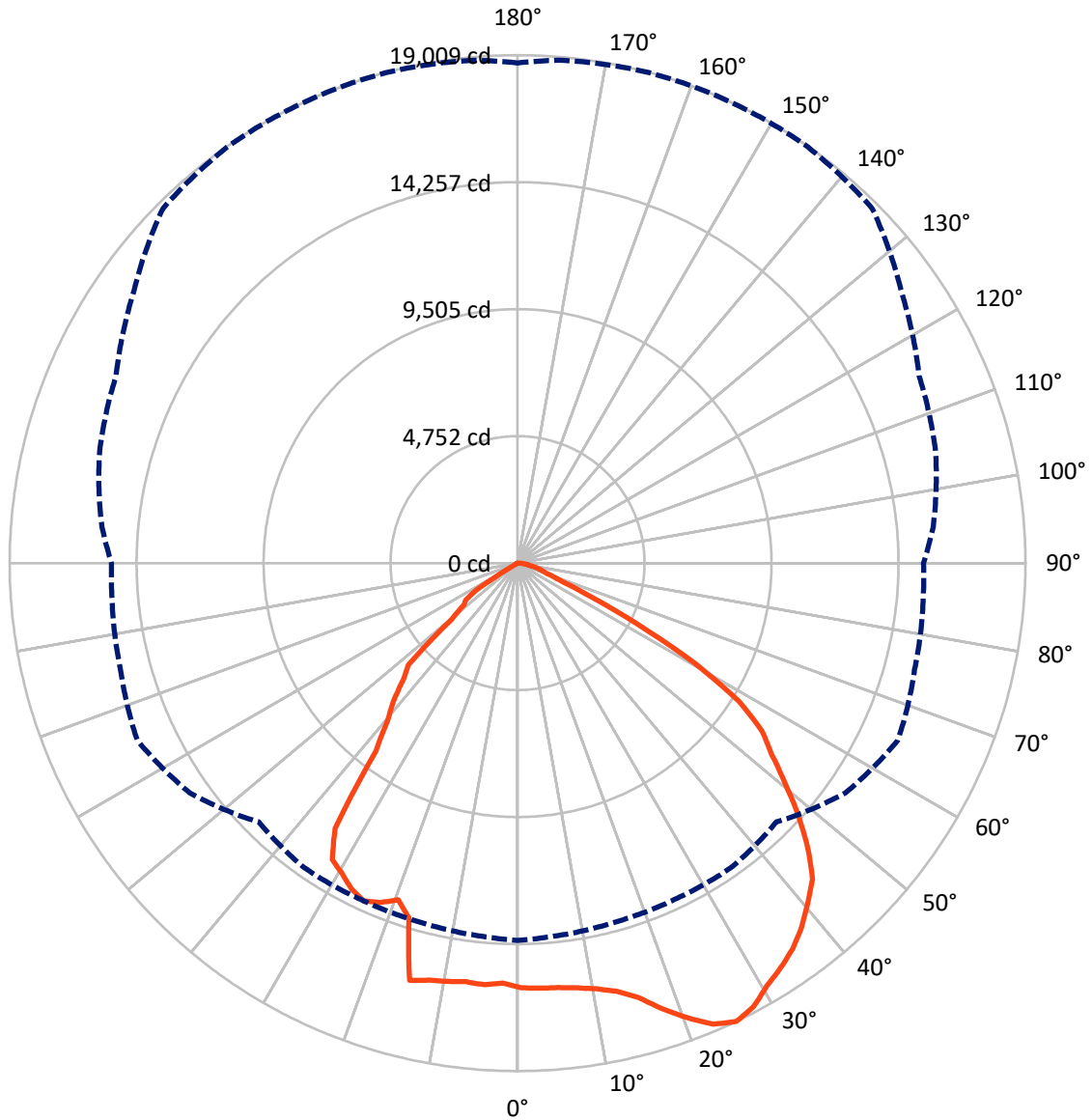
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.7 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	22801.3	0.0	22801.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	14028.3	0.0	14028.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	36829.6	0.0	36829.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1524.6	4.1
10°-20°	4655.2	12.6
20°-30°	7359.6	20.0
30°-40°	8313.3	22.6
40°-50°	7785.5	21.1
50°-60°	5367.6	14.6
60°-70°	1442.1	3.9
70°-80°	300.5	0.8
80°-90°	81.3	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°	36829.6	100.0
0°-180°	36829.6	100.0



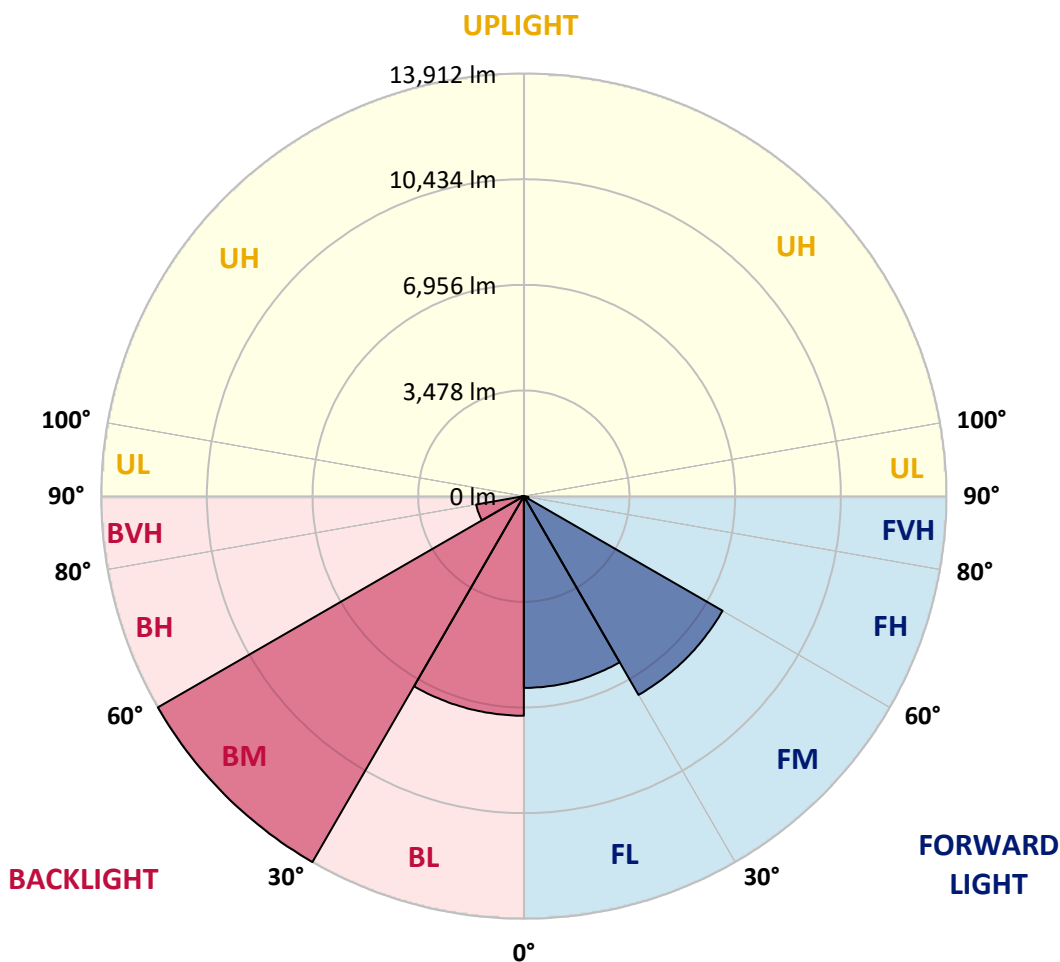
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6311.4	17.1			
FM (30°-60°)	7554.6	20.5			
FH (60°-80°)	151.4	0.4			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	7227.9	19.6	B5		
BM (30°-60°)	13911.8	37.8	B5		
BH (60°-80°)	1591.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	70.4	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°	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3
2.5°	15961.7	15858.9	15761.4	15729.0	15864.3	16010.4	15918.4	15923.8	15891.3	15950.9
5°	16080.8	15940.0	15875.1	15826.4	15848.0	15999.6	15869.7	15918.4	15864.3	15934.6
7.5°	16037.5	15940.0	15875.1	15783.1	15853.4	16032.1	15907.6	15913.0	15885.9	15950.9
10°	16010.4	15940.0	15858.9	15869.7	15950.9	16102.4	16005.0	16059.1	16021.2	16059.1
12.5°	16075.4	15999.6	15956.3	15956.3	16026.6	16199.8	16151.1	16199.8	16183.6	16216.1
15°	15463.7	15534.1	15945.5	16129.5	16270.2	16443.4	16421.8	16470.5	16481.3	16530.0
17.5°	13044.3	12973.9	12941.5	13888.7	16405.5	16941.4	16925.1	16919.7	16865.6	16827.7
20°	13363.7	13336.6	13298.7	13369.1	13650.5	17201.2	17309.4	16643.7	16448.8	16432.6
22.5°	13872.4	13829.1	13688.4	13693.8	13780.4	14955.0	16773.6	16167.4	16102.4	16064.5
25°	14121.4	14034.8	13921.2	13888.7	13915.7	13699.2	14982.0	15701.9	15382.5	15236.4
27.5°	13683.0	13688.4	13596.4	13683.0	13580.2	12605.9	12059.2	14792.6	14781.8	14716.8
30°	13352.8	13336.6	13228.3	13336.6	12627.5	11539.6	11306.9	13796.7	13683.0	13596.4
32.5°	12340.7	12351.5	12665.4	13087.6	11923.9	11063.3	10359.7	12324.4	13401.5	13352.8
35°	8827.9	8849.6	9964.6	12048.4	10857.6	10116.1	10062.0	10652.0	12957.7	12979.4
37.5°	8497.7	8497.7	8470.7	8811.7	10018.7	9731.8	9840.1	9780.5	11869.8	11923.9
40°	8259.6	8210.9	8173.0	7637.1	6966.0	9461.2	9537.0	9266.3	11220.3	11231.1
42.5°	7972.7	7918.6	7929.4	6938.9	6235.3	8790.0	8578.9	8216.3	10137.8	10148.6
45°	7447.7	7539.7	7604.7	6072.9	6018.8	6278.6	7913.2	7685.9	9407.1	9607.3
47.5°	3788.8	3870.0	5937.6	5585.8	5710.3	5580.4	6684.5	6689.9	7826.6	8492.3
50°	3437.0	3415.3	3420.7	3258.4	5271.9	4514.1	4833.4	6132.5	6267.8	7220.4
52.5°	3204.2	3198.8	2868.7	2549.3	3312.5	3972.8	3507.4	4438.3	4660.2	6116.2
55°	2370.7	2543.9	2262.5	2397.8	2073.0	3182.6	3166.4	4005.3	4081.1	4903.8
57.5°	21.7	27.1	65.0	1824.0	1434.3	1591.3	2186.7	2733.4	2868.7	3821.3
60°	5.4	10.8	27.1	54.1	931.0	979.7	1461.4	1580.5	1780.7	2278.7
62.5°	0.0	0.0	10.8	27.1	48.7	400.5	465.5	508.8	784.8	1163.7
65°	0.0	0.0	5.4	16.2	27.1	65.0	113.7	238.2	341.0	422.2
67.5°	0.0	0.0	5.4	10.8	21.7	32.5	65.0	92.0	146.1	249.0
70°	0.0	0.0	5.4	10.8	16.2	27.1	43.3	65.0	86.6	124.5
72.5°	0.0	0.0	5.4	10.8	10.8	32.5	32.5	48.7	65.0	81.2
75°	0.0	0.0	5.4	5.4	10.8	21.7	32.5	37.9	43.3	65.0
77.5°	0.0	0.0	5.4	10.8	16.2	21.7	27.1	43.3	37.9	37.9
80°	0.0	0.0	5.4	16.2	16.2	27.1	32.5	43.3	27.1	27.1
82.5°	0.0	0.0	5.4	21.7	16.2	54.1	54.1	59.5	21.7	21.7
85°	0.0	0.0	16.2	10.8	32.5	54.1	48.7	32.5	27.1	16.2
87.5°	0.0	0.0	5.4	5.4	10.8	16.2	37.9	32.5	10.8	10.8
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°
15891.3	0°	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3	15891.3
15793.9	2.5°	16010.4	15940.0	16086.2	16069.9	15999.6	15967.1	15929.2	15896.7	15658.6
15804.7	5°	16015.8	15907.6	16086.2	16053.7	16042.9	15988.8	15956.3	16005.0	15788.5
15848.0	7.5°	16015.8	15907.6	16102.4	16113.2	16097.0	16053.7	16048.3	16080.8	15902.2
15923.8	10°	16124.1	16080.8	16243.1	16259.4	16237.7	16226.9	16199.8	16178.2	15988.8
16183.6	12.5°	16351.4	16264.8	16448.8	16497.5	16481.3	16508.4	16443.4	16475.9	16281.0
16448.8	15°	16627.4	16632.9	16773.6	16881.8	16871.0	16957.6	16860.2	16946.8	16806.1
16751.9	17.5°	17049.6	17109.2	17309.4	17471.8	17531.3	17596.3	17531.3	17558.4	17358.1
16416.3	20°	16605.8	16827.7	17791.1	18088.8	18213.3	18272.9	18164.6	18197.1	17996.8
16005.0	22.5°	16205.3	16492.1	17347.3	18278.3	18662.6	18781.6	18743.8	18738.3	18662.6
15193.1	25°	15615.3	16194.4	16578.7	17563.8	18770.8	18987.3	19009.0	19003.6	18889.9
14695.1	27.5°	14890.0	15019.9	16015.8	16616.6	18013.1	18835.8	18803.3	18646.3	18494.8
13661.3	30°	13964.5	14554.4	15003.7	15961.7	17033.4	18370.3	18370.3	18251.2	18094.2
13293.3	32.5°	13493.6	14256.7	14673.5	15019.9	15934.6	17850.7	18067.2	17942.7	17818.2
13006.4	35°	13244.6	13358.2	14332.5	14646.4	15420.4	16849.4	17726.2	17601.7	17509.7
12243.3	37.5°	12697.9	12963.1	13417.8	14256.7	14494.9	16032.1	17271.5	17206.6	17098.3
11252.7	40°	11480.1	12189.1	12887.3	13683.0	13932.0	14982.0	16719.5	16746.5	16600.4
10197.3	42.5°	10760.2	11241.9	12335.3	12871.1	13542.3	14305.4	16183.6	16226.9	16124.1
9661.5	45°	9915.8	10451.7	11220.3	12194.5	13109.3	13374.5	15236.4	15691.1	15604.5
8595.2	47.5°	9141.8	9574.9	10516.6	11501.7	12513.9	12476.0	14148.5	15003.7	14884.6
7777.9	50°	8043.1	8800.9	9244.7	10148.6	11658.7	11761.5	12990.2	14197.2	14099.8
6608.8	52.5°	6782.0	7734.6	8584.3	9412.5	10792.7	11036.2	11913.1	13374.5	13309.5
5049.9	55°	5926.8	6619.6	7577.6	8243.4	9742.6	10392.1	11106.6	12589.7	12557.2
4151.4	57.5°	4216.4	5553.3	6343.5	7274.5	8064.7	9239.3	9769.7	10992.9	10689.8
2300.3	60°	2857.8	3485.7	4449.1	5450.5	5980.9	7155.4	7648.0	8627.6	8546.5
1374.8	62.5°	1510.1	2089.3	2776.7	3280.0	3664.3	4806.4	5012.0	6067.5	6040.4
552.1	65°	665.7	882.3	1504.7	1764.5	2159.6	2690.1	2868.7	3247.5	3155.5
270.6	67.5°	346.4	525.0	849.8	1044.6	1315.3	1515.5	1661.7	1780.7	1856.5
178.6	70°	211.1	384.3	525.0	725.3	903.9	1066.3	1179.9	1342.3	1439.7
92.0	72.5°	157.0	243.6	362.6	557.5	654.9	844.4	958.0	1077.1	1163.7
75.8	75°	86.6	162.4	292.3	438.4	525.0	687.4	790.2	871.4	898.5
43.3	77.5°	54.1	124.5	243.6	341.0	411.4	557.5	530.4	606.2	671.2
32.5	80°	37.9	92.0	189.4	281.5	286.9	357.2	422.2	487.1	530.4
21.7	82.5°	27.1	75.8	140.7	216.5	189.4	276.0	330.2	378.9	276.0
16.2	85°	21.7	54.1	70.4	129.9	108.3	194.9	167.8	162.4	108.3
10.8	87.5°	16.2	27.1	48.7	59.5	43.3	43.3	54.1	65.0	54.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
15891.3  
15496.2  
15604.5  
15696.5  
15831.8  
16107.8  
16573.3  
17184.9  
17856.1  
18419.0  
*18716.7*  
18375.7  
18034.7  
17715.4  
17379.8  
16990.1  
16567.9  
16113.2  
15615.3  
14971.2  
14116.0  
13352.8  
12595.1  
10657.4  
8551.9  
6045.8  
3117.6  
1856.5  
1445.2  
1179.9  
882.3  
682.0  
535.8  
200.3  
108.3  
54.1  
0.0

(END OF REPORT)