

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: P638294

Luminaire Tested: **IFLD-L-SA7A-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638294  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19130.7 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

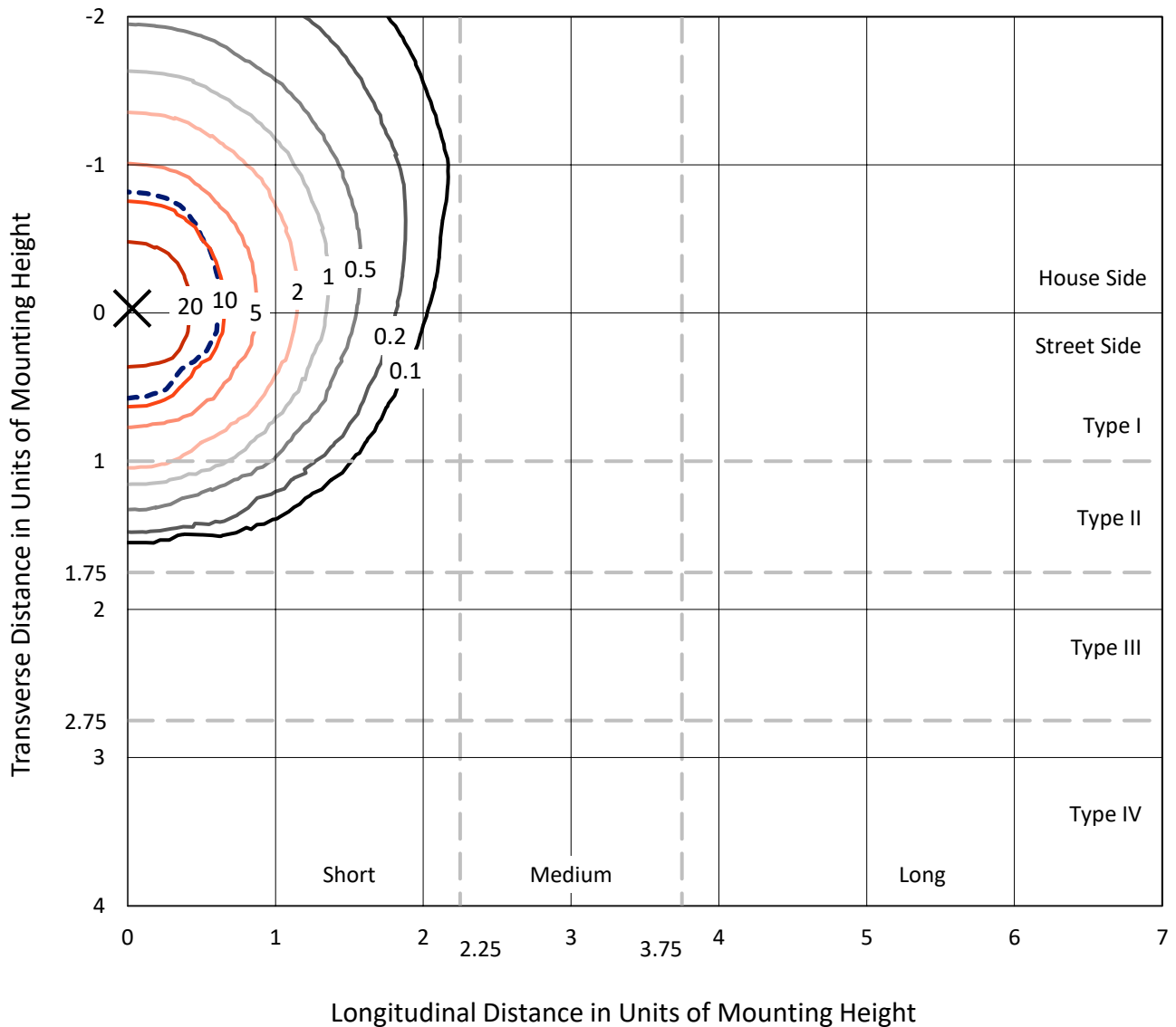
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

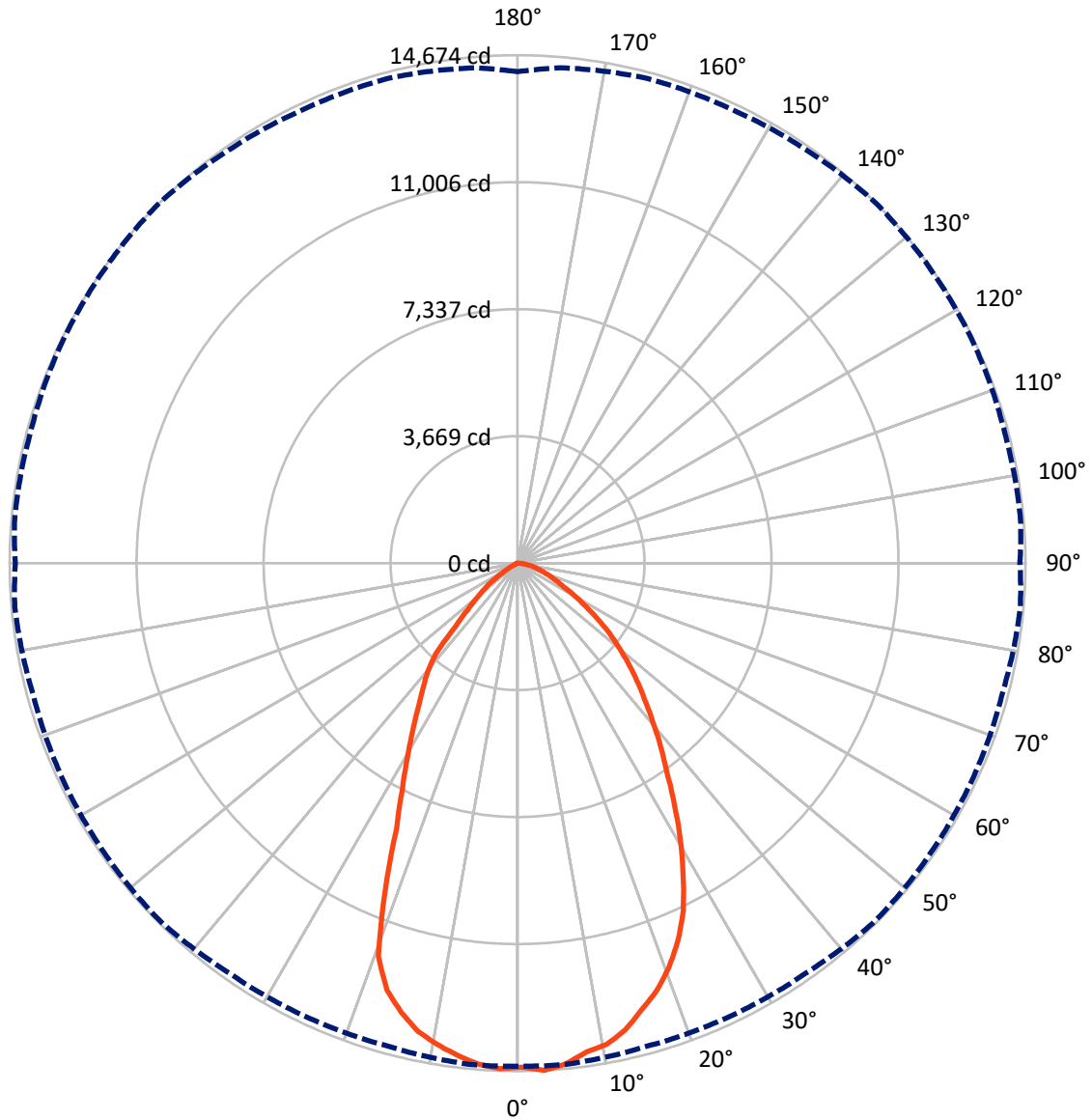
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11330.2	0.0	11330.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	7800.5	0.0	7800.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	19130.7	0.0	19130.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1365.3	7.1
10°-20°	3661.3	19.1
20°-30°	4465.1	23.3
30°-40°	4076.6	21.3
40°-50°	2946.1	15.4
50°-60°	1608.6	8.4
60°-70°	665.1	3.5
70°-80°	269.4	1.4
80°-90°	73.3	0.4
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°	19130.7	100.0
0°-180°	19130.7	100.0



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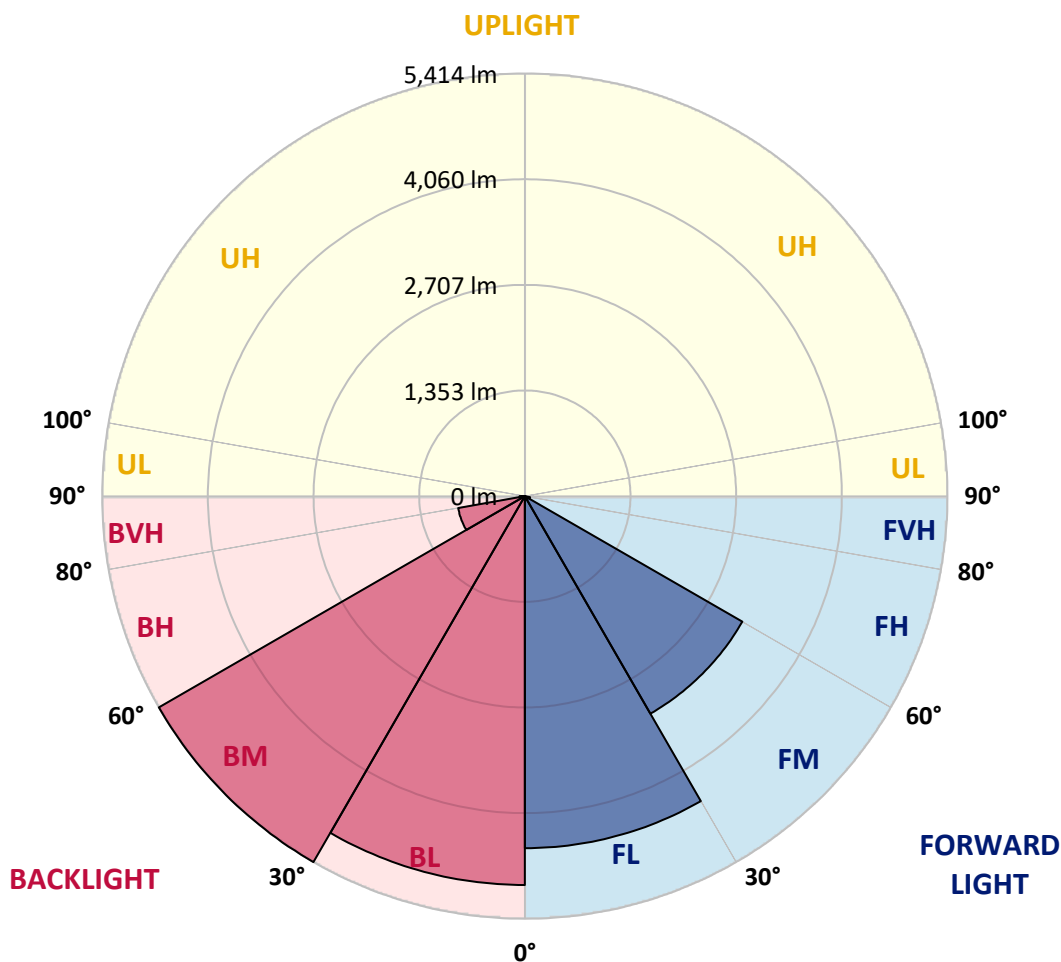
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4509.8	23.6			
FM (30°-60°)	3217.4	16.8			
FH (60°-80°)	67.4	0.4			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	4981.9	26.0	B4/5000		
BM (30°-60°)	5413.8	28.3	B4/8500		
BH (60°-80°)	867.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	67.4	0.4			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°	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4
2.5°	14531.5	14550.3	14447.9	14458.7	14477.6	14615.0	14579.9	14547.6	14501.8	14579.9
5°	14512.6	14523.4	14415.6	14377.9	14394.1	14518.0	14404.8	14404.8	14394.1	14380.6
7.5°	14367.1	14372.5	14289.0	14221.6	14264.7	14321.3	14237.8	14278.2	14218.9	14264.7
10°	14148.9	14113.9	14014.2	13995.3	14043.8	14097.7	14041.1	14078.9	14025.0	14060.0
12.5°	13828.3	13774.4	13693.6	13669.4	13752.9	13825.6	13779.8	13758.3	13688.2	13774.4
15°	12591.8	12551.4	12734.6	13055.1	13343.4	13405.4	13356.9	13378.4	13232.9	13257.2
17.5°	10363.8	10288.4	10485.1	11244.8	12327.8	12898.9	12855.8	12715.7	12500.2	12548.7
20°	9418.2	9396.7	9375.1	9555.6	10312.6	12044.9	12104.2	11748.5	11441.4	11374.1
22.5°	8884.8	8876.7	8855.2	8895.6	9095.0	10207.6	10886.5	10557.8	10353.1	10334.2
25°	8397.2	8383.7	8319.1	8370.3	8370.3	8434.9	9305.1	9504.4	9323.9	9302.4
27.5°	7901.5	7877.3	7866.5	7890.7	7766.8	7330.4	7551.3	8523.8	8429.5	8434.9
30°	7365.4	7357.3	7327.7	7378.9	6996.3	6454.8	6314.7	7634.8	7653.7	7648.3
32.5°	6568.0	6603.0	6737.7	6794.3	6163.9	5716.7	5482.3	6605.7	6990.9	6982.9
35°	4771.1	4771.1	5210.2	6026.5	5401.5	5064.7	4938.1	5600.8	6336.3	6363.2
37.5°	3922.5	3935.9	4022.1	4393.9	4660.6	4542.1	4504.4	4714.5	5495.8	5538.9
40°	3529.1	3529.1	3529.1	3375.6	3367.5	4092.2	4070.6	4003.3	4746.8	4841.1
42.5°	3170.8	3178.9	3184.3	2796.4	2580.9	3537.2	3488.7	3386.4	4076.0	4186.5
45°	2801.8	2815.2	2831.4	2338.4	2244.1	2545.8	2952.6	2839.5	3413.3	3556.1
47.5°	1710.7	1732.2	2098.6	1982.8	1993.6	1963.9	2408.4	2389.6	2799.1	3001.1
50°	1155.7	1163.8	1198.8	1258.1	1710.7	1543.7	1705.3	1977.4	2125.6	2432.7
52.5°	969.8	983.3	897.1	816.3	1123.4	1206.9	1190.7	1468.2	1527.5	1907.4
55°	681.6	724.7	684.3	676.2	638.5	937.5	902.5	1128.8	1166.5	1449.4
57.5°	70.0	80.8	140.1	503.8	417.6	530.7	643.9	827.1	864.8	1069.5
60°	5.4	5.4	13.5	70.0	304.4	317.9	444.5	509.2	581.9	746.2
62.5°	0.0	2.7	5.4	10.8	48.5	169.7	223.6	266.7	350.2	482.2
65°	0.0	0.0	2.7	8.1	10.8	64.7	86.2	140.1	191.3	299.0
67.5°	0.0	0.0	2.7	5.4	8.1	16.2	29.6	51.2	102.4	169.7
70°	0.0	0.0	2.7	5.4	8.1	13.5	21.6	32.3	45.8	91.6
72.5°	0.0	0.0	2.7	2.7	5.4	13.5	16.2	21.6	32.3	45.8
75°	0.0	0.0	2.7	2.7	8.1	16.2	13.5	16.2	21.6	29.6
77.5°	0.0	0.0	2.7	5.4	8.1	16.2	13.5	16.2	16.2	18.9
80°	0.0	0.0	2.7	5.4	10.8	18.9	16.2	16.2	13.5	13.5
82.5°	0.0	0.0	2.7	8.1	10.8	24.2	24.2	21.6	10.8	8.1
85°	0.0	0.0	5.4	10.8	16.2	26.9	26.9	21.6	8.1	5.4
87.5°	0.0	0.0	5.4	8.1	13.5	18.9	26.9	21.6	8.1	2.7
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°
14558.4	0°	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4	14558.4
14512.6	2.5°	14585.3	14569.2	14623.0	14644.6	14674.2	14561.1	14491.0	14493.7	14364.4
14348.3	5°	14434.5	14437.2	14507.2	14501.8	14531.5	14469.5	14442.6	14396.8	14283.6
14140.8	7.5°	14243.2	14218.9	14286.3	14337.5	14262.1	14305.2	14243.2	14264.7	14197.4
13957.6	10°	14095.0	14038.5	14100.4	14135.4	14138.1	14095.0	14035.8	13979.2	13954.9
13672.1	12.5°	13766.4	13693.6	13798.7	13847.2	13839.1	13755.6	13688.2	13701.7	13623.6
13171.0	15°	13313.8	13316.5	13391.9	13437.7	13394.6	13375.7	13381.1	13348.8	13281.4
12478.6	17.5°	12621.4	12661.8	12861.2	12971.6	12995.9	12958.2	12939.3	12901.6	12834.2
11374.1	20°	11468.4	11710.8	12066.4	12408.6	12475.9	12465.2	12397.8	12381.6	12343.9
10280.3	22.5°	10455.4	10635.9	11048.1	11581.5	11856.3	11883.2	11802.4	11778.2	11737.8
9302.4	25°	9407.5	9601.4	9973.2	10552.4	11120.8	11236.7	11223.2	11150.5	11107.4
8434.9	27.5°	8523.8	8717.8	9054.5	9577.2	10186.0	10557.8	10592.8	10477.0	10474.3
7661.7	30°	7726.4	7993.1	8249.0	8674.7	9264.7	9822.3	9881.6	9800.8	9808.9
6953.2	32.5°	7101.4	7322.3	7540.5	7826.1	8316.4	8965.6	9197.3	9121.9	9092.3
6363.2	35°	6462.9	6613.8	6837.4	7098.7	7432.8	8076.6	8478.0	8421.5	8391.8
5565.8	37.5°	5735.5	5994.2	6155.8	6449.4	6710.8	7222.6	7788.4	7780.3	7718.3
4886.9	40°	4989.3	5261.4	5506.5	5802.9	6004.9	6411.7	7039.4	7036.7	7044.8
4183.8	42.5°	4313.1	4563.6	4860.0	5183.3	5377.2	5673.6	6347.1	6384.8	6430.6
3604.6	45°	3701.6	3927.9	4202.6	4596.0	4830.3	5000.1	5598.1	5770.6	5767.9
3087.3	47.5°	3152.0	3364.8	3596.5	3979.0	4278.1	4431.6	4927.3	5172.5	5156.3
2532.4	50°	2645.5	2834.1	3076.6	3354.0	3755.4	3890.1	4259.2	4582.5	4558.3
2017.8	52.5°	2128.3	2389.6	2594.3	2847.6	3270.5	3402.5	3688.1	4003.3	3984.4
1514.0	55°	1659.5	1912.7	2160.6	2378.8	2734.4	2931.1	3135.8	3459.1	3453.7
1185.4	57.5°	1255.4	1532.9	1767.3	1974.7	2257.6	2500.0	2664.4	2958.0	2995.7
810.9	60°	929.4	1142.3	1395.5	1627.2	1850.8	2101.3	2211.8	2500.0	2516.2
555.0	62.5°	633.1	867.5	1115.3	1325.4	1492.5	1751.1	1850.8	2087.9	2117.5
355.6	65°	439.1	590.0	872.9	1023.7	1228.5	1449.4	1549.1	1737.6	1796.9
204.7	67.5°	291.0	420.3	681.6	819.0	1021.0	1171.9	1298.5	1452.1	1516.7
129.3	70°	158.9	309.8	487.6	646.6	821.7	967.1	1091.1	1215.0	1271.6
59.3	72.5°	107.8	207.4	339.4	511.9	662.7	805.5	916.0	1007.6	1010.3
35.0	75°	53.9	140.1	258.6	396.0	517.2	657.3	757.0	810.9	746.2
21.6	77.5°	32.3	102.4	210.1	317.9	420.3	530.7	587.3	616.9	511.9
16.2	80°	18.9	72.7	164.3	253.2	291.0	390.6	444.5	452.6	342.1
10.8	82.5°	13.5	53.9	129.3	185.9	177.8	274.8	334.1	323.3	218.2
8.1	85°	8.1	37.7	80.8	115.8	107.8	180.5	194.0	199.4	126.6
5.4	87.5°	5.4	21.6	43.1	62.0	51.2	78.1	78.1	94.3	62.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
14558.4  
*14197.4*  
14256.7  
14084.2  
13847.2  
13556.2  
13214.1  
12804.6  
12257.7  
11727.0  
11061.6  
10468.9  
9768.5  
9095.0  
8351.4  
7769.5  
7044.8  
6406.3  
5773.2  
5161.7  
4579.8  
4024.8  
3467.2  
2979.6  
2540.4  
2122.9  
1783.4  
1508.6  
1250.0  
986.0  
697.7  
493.0  
320.6  
202.1  
115.8  
53.9  
0.0

(END OF REPORT)