

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: P636807

Luminaire Tested: **IFLD-S-SA6C-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636807  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

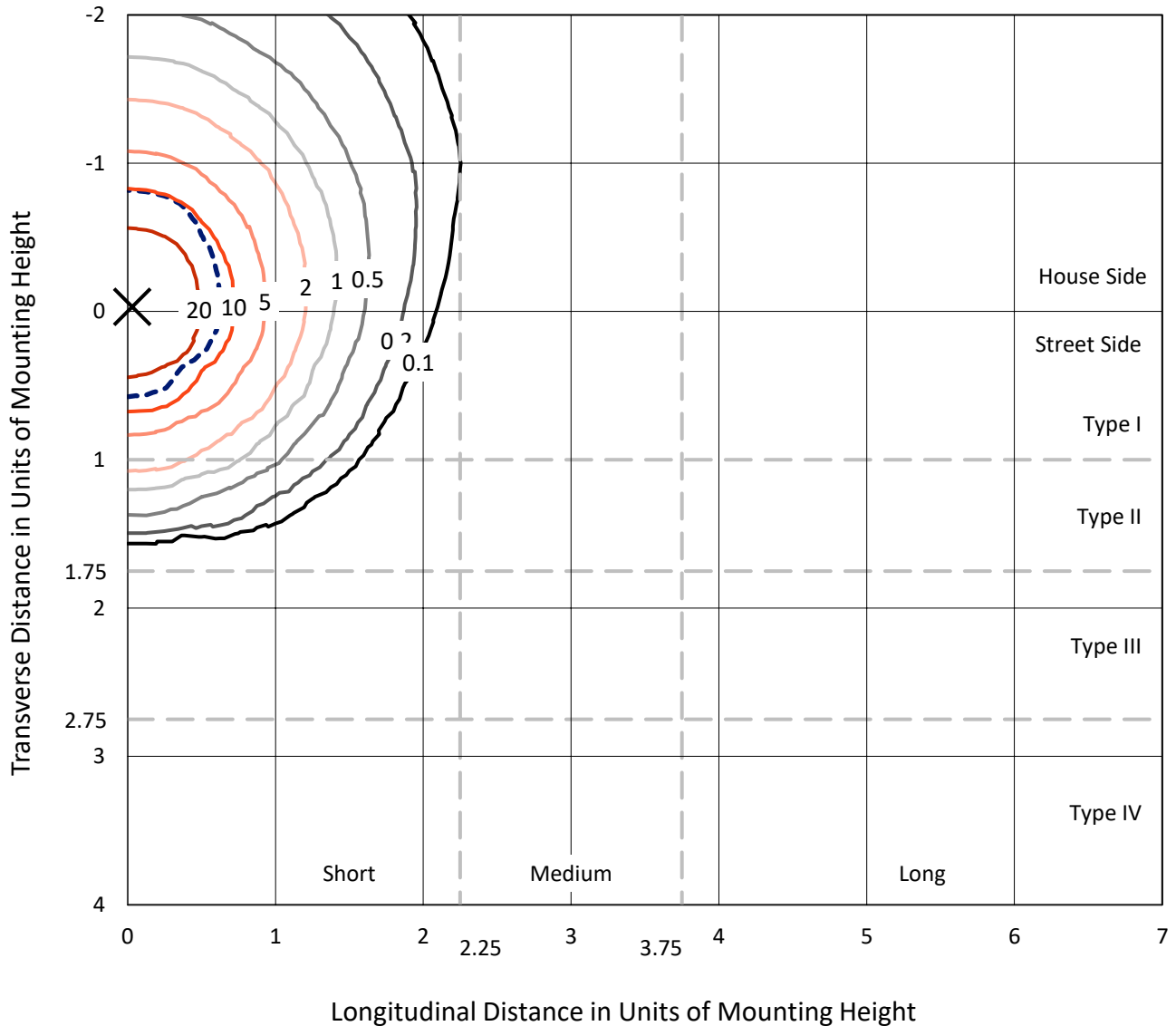
Lumens per Lamp: N/A  
Luminaire Lumens: 23095 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P636807  
 CATALOG NUMBER: IFLD-S-SA6C-940-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

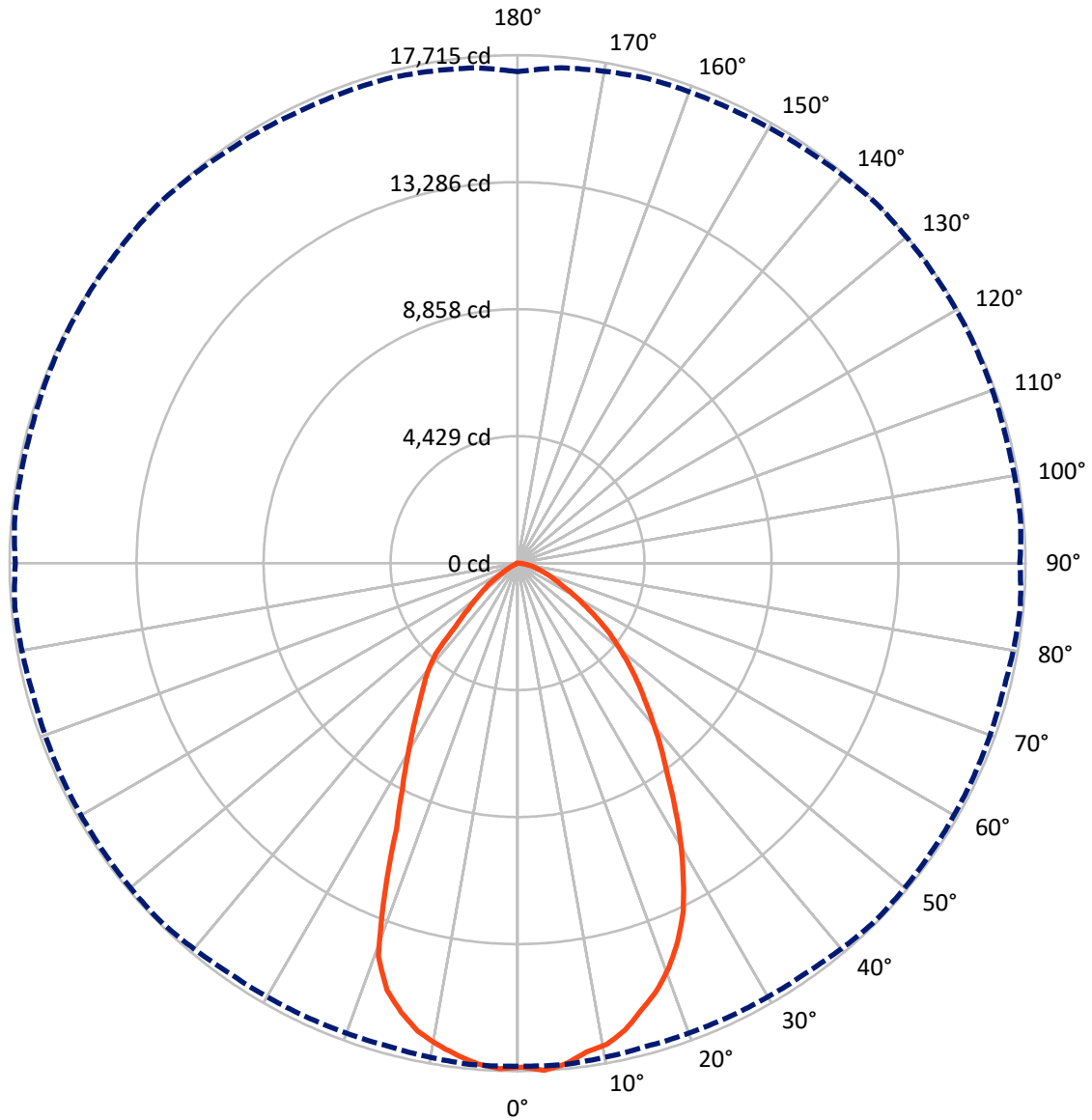
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.9 fc  
 Type I - Short - N/A

REPORT NUMBER: P636807  
CATALOG NUMBER: IFLD-S-SA6C-940-U-77-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P636807

CATALOG NUMBER: IFLD-S-SA6C-940-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13678.0	0.0	13678.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	9417.0	0.0	9417.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	23095.0	0.0	23095.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1648.3	7.1
10°-20°	4420.0	19.1
20°-30°	5390.4	23.3
30°-40°	4921.4	21.3
40°-50°	3556.6	15.4
50°-60°	1941.9	8.4
60°-70°	802.9	3.5
70°-80°	325.2	1.4
80°-90°	88.5	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°	23095.0	100.0
0°-180°	23095.0	100.0



REPORT NUMBER: P636807

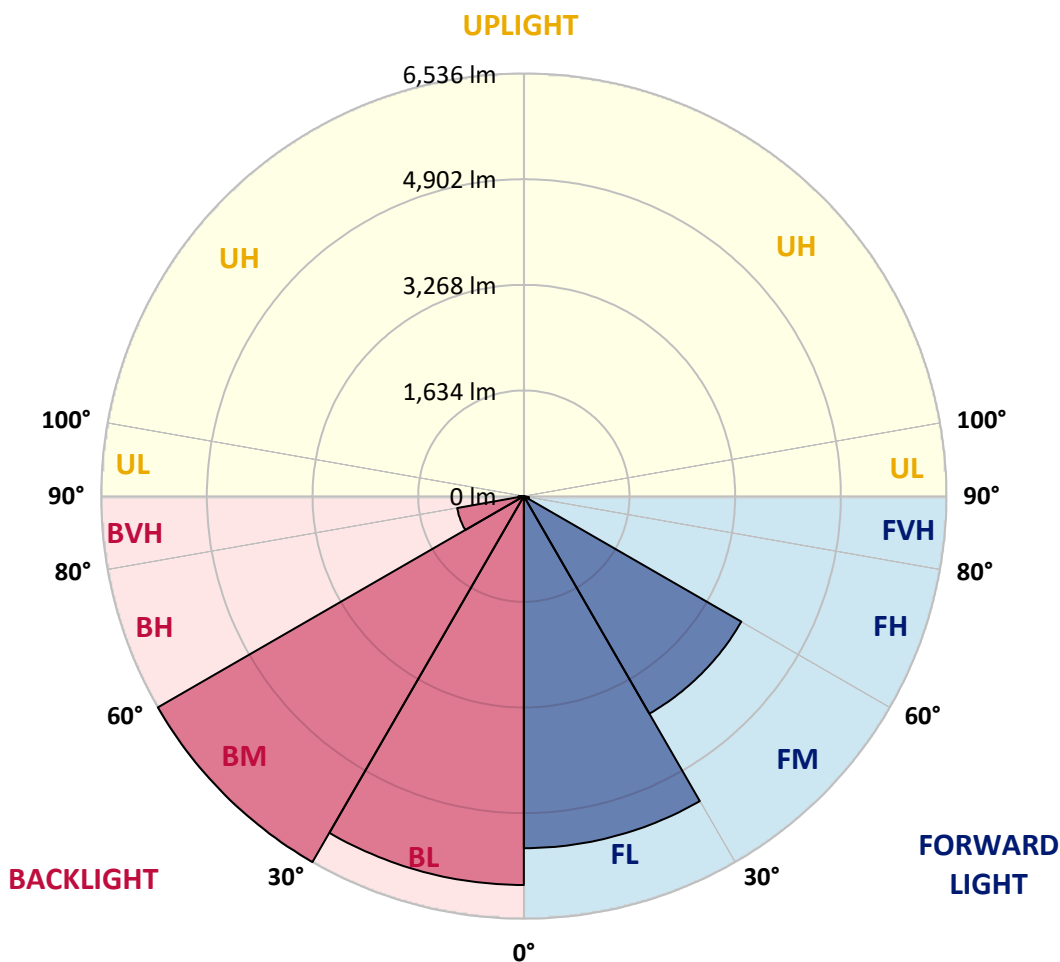
CATALOG NUMBER: IFLD-S-SA6C-940-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5444.4	23.6			
FM (30°-60°)	3884.2	16.8			
FH (60°-80°)	81.4	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	6014.3	26.0	B5		
BM (30°-60°)	6535.7	28.3	B4/8500		
BH (60°-80°)	1046.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	81.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





REPORT NUMBER: P636807  
 CATALOG NUMBER: IFLD-S-SA6C-940-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2
2.5°	17542.7	17565.5	17441.9	17454.9	17477.7	17643.5	17601.3	17562.2	17506.9	17601.3
5°	17520.0	17533.0	17402.9	17357.3	17376.9	17526.5	17389.9	17389.9	17376.9	17360.6
7.5°	17344.3	17350.8	17250.0	17168.7	17220.7	17289.0	17188.2	17237.0	17165.5	17220.7
10°	17080.9	17038.6	16918.3	16895.5	16954.1	17019.1	16950.8	16996.3	16931.3	16973.6
12.5°	16693.9	16628.8	16531.3	16502.0	16602.8	16690.6	16635.3	16609.3	16524.8	16628.8
15°	15201.1	15152.3	15373.5	15760.5	16108.5	16183.3	16124.7	16150.7	15975.1	16004.4
17.5°	12511.5	12420.4	12657.8	13575.0	14882.4	15571.8	15519.8	15350.7	15090.5	15149.1
20°	11369.9	11343.9	11317.9	11535.8	12449.7	14540.9	14612.4	14183.1	13812.4	13731.1
22.5°	10726.0	10716.2	10690.2	10739.0	10979.6	12322.8	13142.4	12745.6	12498.5	12475.7
25°	10137.3	10121.0	10043.0	10104.8	10104.8	10182.8	11233.3	11474.0	11256.1	11230.1
27.5°	9538.9	9509.6	9496.6	9525.9	9376.3	8849.4	9116.1	10290.2	10176.3	10182.8
30°	8891.7	8881.9	8846.2	8908.0	8446.1	7792.4	7623.3	9216.9	9239.7	9233.2
32.5°	7929.0	7971.3	8133.9	8202.2	7441.2	6901.3	6618.4	7974.6	8439.6	8429.9
35°	5759.8	5759.8	6289.9	7275.3	6520.8	6114.3	5961.4	6761.5	7649.3	7681.9
37.5°	4735.3	4751.6	4855.6	5304.4	5626.4	5483.3	5437.8	5691.5	6634.6	6686.7
40°	4260.5	4260.5	4260.5	4075.1	4065.3	4940.2	4914.2	4832.9	5730.5	5844.3
42.5°	3827.9	3837.7	3844.2	3375.9	3115.7	4270.2	4211.7	4088.1	4920.7	5054.0
45°	3382.4	3398.6	3418.1	2823.0	2709.1	3073.4	3564.5	3427.9	4120.6	4293.0
47.5°	2065.2	2091.2	2533.5	2393.7	2406.7	2370.9	2907.5	2884.8	3379.1	3623.0
50°	1395.2	1405.0	1447.3	1518.8	2065.2	1863.5	2058.7	2387.2	2566.0	2936.8
52.5°	1170.8	1187.1	1083.0	985.4	1356.2	1457.0	1437.5	1772.5	1844.0	2302.6
55°	822.8	874.9	826.1	816.3	770.8	1131.8	1089.5	1362.7	1408.2	1749.7
57.5°	84.6	97.6	169.1	608.2	504.1	640.7	777.3	998.4	1044.0	1291.1
60°	6.5	6.5	16.3	84.6	367.5	383.8	536.6	614.7	702.5	900.9
62.5°	0.0	3.3	6.5	13.0	58.5	204.9	269.9	322.0	422.8	582.2
65°	0.0	0.0	3.3	9.8	13.0	78.1	104.1	169.1	230.9	361.0
67.5°	0.0	0.0	3.3	6.5	9.8	19.5	35.8	61.8	123.6	204.9
70°	0.0	0.0	3.3	6.5	9.8	16.3	26.0	39.0	55.3	110.6
72.5°	0.0	0.0	3.3	3.3	6.5	16.3	19.5	26.0	39.0	55.3
75°	0.0	0.0	3.3	3.3	9.8	19.5	16.3	19.5	26.0	35.8
77.5°	0.0	0.0	3.3	6.5	9.8	19.5	16.3	19.5	19.5	22.8
80°	0.0	0.0	3.3	6.5	13.0	22.8	19.5	19.5	16.3	16.3
82.5°	0.0	0.0	3.3	9.8	13.0	29.3	29.3	26.0	13.0	9.8
85°	0.0	0.0	6.5	13.0	19.5	32.5	32.5	26.0	9.8	6.5
87.5°	0.0	0.0	6.5	9.8	16.3	22.8	32.5	26.0	9.8	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636807  
 CATALOG NUMBER: IFLD-S-SA6C-940-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17575.2	0°	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2	17575.2
17520.0	2.5°	17607.8	17588.3	17653.3	17679.3	17715.1	17578.5	17493.9	17497.2	17341.1
17321.6	5°	17425.6	17428.9	17513.4	17506.9	17542.7	17467.9	17435.4	17380.1	17243.5
17071.1	7.5°	17194.7	17165.5	17246.8	17308.6	17217.5	17269.5	17194.7	17220.7	17139.4
16850.0	10°	17015.9	16947.6	17022.4	17064.6	17067.9	17015.9	16944.3	16876.0	16846.7
16505.2	12.5°	16619.1	16531.3	16658.1	16716.6	16706.9	16606.1	16524.8	16541.0	16446.7
15900.3	15°	16072.7	16075.9	16167.0	16222.3	16170.3	16147.5	16154.0	16115.0	16033.7
15064.5	17.5°	15236.9	15285.6	15526.3	15659.7	15688.9	15643.4	15620.6	15575.1	15493.8
13731.1	20°	13844.9	14137.6	14566.9	14979.9	15061.2	15048.2	14966.9	14947.4	14901.9
12410.6	22.5°	12622.0	12839.9	13337.5	13981.5	14313.2	14345.7	14248.2	14218.9	14170.1
11230.1	25°	11356.9	11591.1	12039.9	12739.1	13425.4	13565.2	13548.9	13461.1	13409.1
10182.8	27.5°	10290.2	10524.3	10930.9	11561.8	12296.8	12745.6	12787.9	12648.1	12644.8
9249.4	30°	9327.5	9649.5	9958.4	10472.3	11184.5	11857.8	11929.3	11831.7	11841.5
8394.1	32.5°	8573.0	8839.7	9103.1	9447.8	10039.7	10823.5	11103.2	11012.2	10976.4
7681.9	35°	7802.2	7984.3	8254.2	8569.7	8973.0	9750.3	10234.9	10166.6	10130.8
6719.2	37.5°	6924.1	7236.3	7431.4	7785.9	8101.4	8719.3	9402.3	9392.5	9317.7
5899.6	40°	6023.2	6351.7	6647.6	7005.4	7249.3	7740.4	8498.2	8494.9	8504.7
5050.8	42.5°	5206.9	5509.3	5867.1	6257.4	6491.5	6849.3	7662.3	7707.9	7763.2
4351.5	45°	4468.6	4741.8	5073.5	5548.4	5831.3	6036.2	6758.2	6966.4	6963.1
3727.1	47.5°	3805.2	4062.1	4341.8	4803.6	5164.6	5350.0	5948.4	6244.3	6224.8
3057.1	50°	3193.7	3421.4	3714.1	4049.1	4533.7	4696.3	5141.8	5532.1	5502.8
2435.9	52.5°	2569.3	2884.8	3131.9	3437.6	3948.2	4107.6	4452.4	4832.9	4810.1
1827.8	55°	2003.4	2309.1	2608.3	2871.8	3301.0	3538.5	3785.6	4175.9	4169.4
1431.0	57.5°	1515.6	1850.5	2133.5	2383.9	2725.4	3018.1	3216.5	3571.0	3616.5
978.9	60°	1122.0	1379.0	1684.7	1964.4	2234.3	2536.8	2670.1	3018.1	3037.6
670.0	62.5°	764.3	1047.2	1346.4	1600.1	1801.8	2114.0	2234.3	2520.5	2556.3
429.3	65°	530.1	712.2	1053.7	1235.9	1483.0	1749.7	1870.1	2097.7	2169.3
247.2	67.5°	351.2	507.4	822.8	988.7	1232.6	1414.7	1567.6	1753.0	1831.0
156.1	70°	191.9	374.0	588.7	780.5	991.9	1167.6	1317.2	1466.8	1535.1
71.5	72.5°	130.1	250.4	409.8	617.9	800.1	972.4	1105.8	1216.3	1219.6
42.3	75°	65.0	169.1	312.2	478.1	624.4	793.6	913.9	978.9	900.9
26.0	77.5°	39.0	123.6	253.7	383.8	507.4	640.7	709.0	744.8	617.9
19.5	80°	22.8	87.8	198.4	305.7	351.2	471.6	536.6	546.4	413.0
13.0	82.5°	16.3	65.0	156.1	224.4	214.6	331.7	403.3	390.3	263.4
9.8	85°	9.8	45.5	97.6	139.8	130.1	217.9	234.2	240.7	152.9
6.5	87.5°	6.5	26.0	52.0	74.8	61.8	94.3	94.3	113.8	74.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
17575.2  
*17139.4*  
17211.0  
17002.8  
16716.6  
16365.4  
15952.4  
15458.0  
14797.8  
14157.1  
13353.8  
12638.3  
11792.7  
10979.6  
10082.0  
9379.5  
8504.7  
7733.9  
6969.6  
6231.3  
5528.9  
4858.9  
4185.7  
3597.0  
3066.9  
2562.8  
2153.0  
1821.3  
1509.1  
1190.3  
842.3  
595.2  
387.0  
243.9  
139.8  
65.0  
0.0

(END OF REPORT)