

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: P638206

Luminaire Tested: **IFLD-M-SA4E-750-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638206  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28485.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

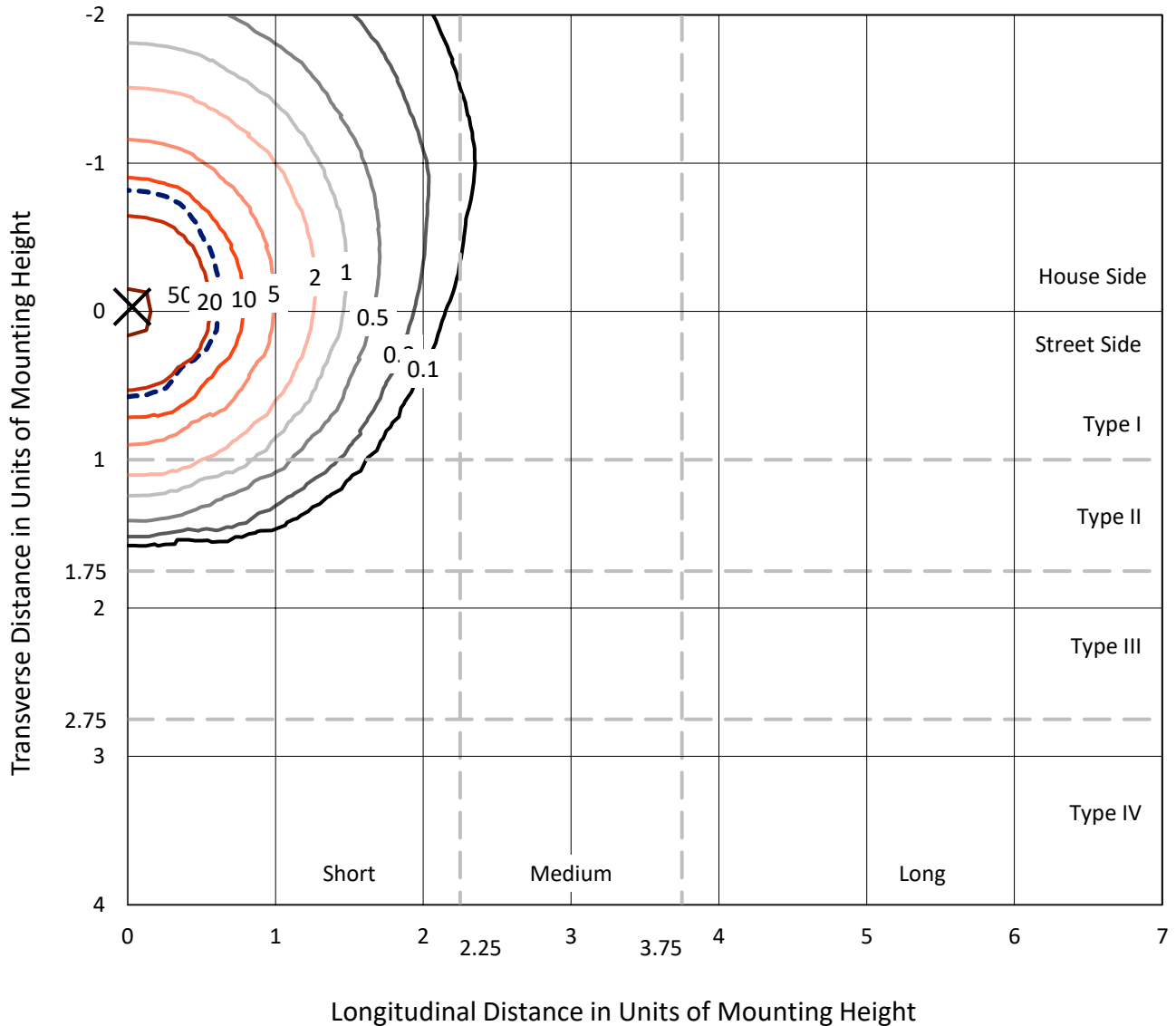
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

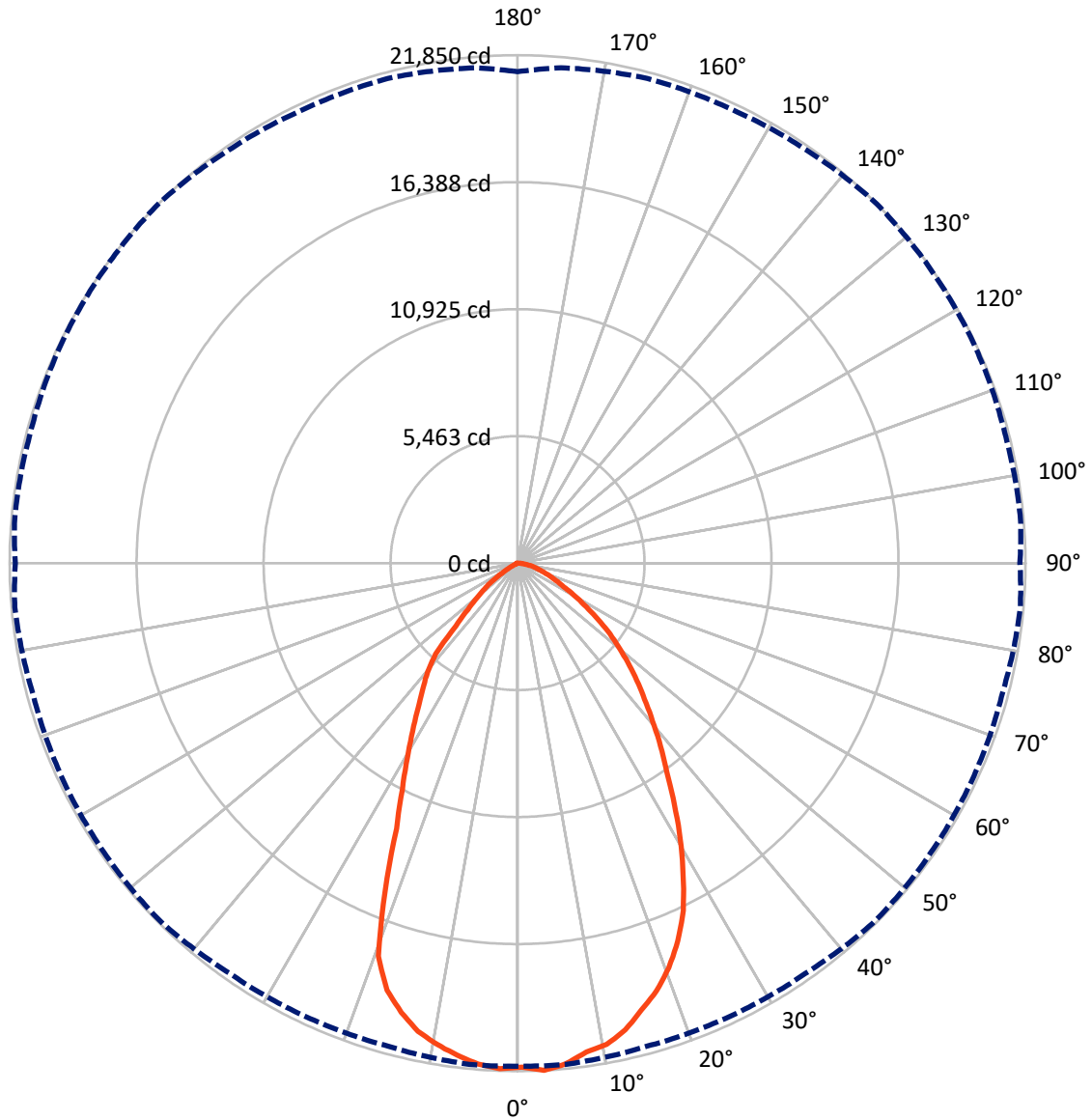
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.2 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	16870.7	0.0	16870.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11615.0	0.0	11615.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	28485.7	0.0	28485.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2033.0	7.1
10°-20°	5451.6	19.1
20°-30°	6648.6	23.3
30°-40°	6070.1	21.3
40°-50°	4386.7	15.4
50°-60°	2395.2	8.4
60°-70°	990.3	3.5
70°-80°	401.1	1.4
80°-90°	109.1	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°	28485.7	100.0
0°-180°	28485.7	100.0



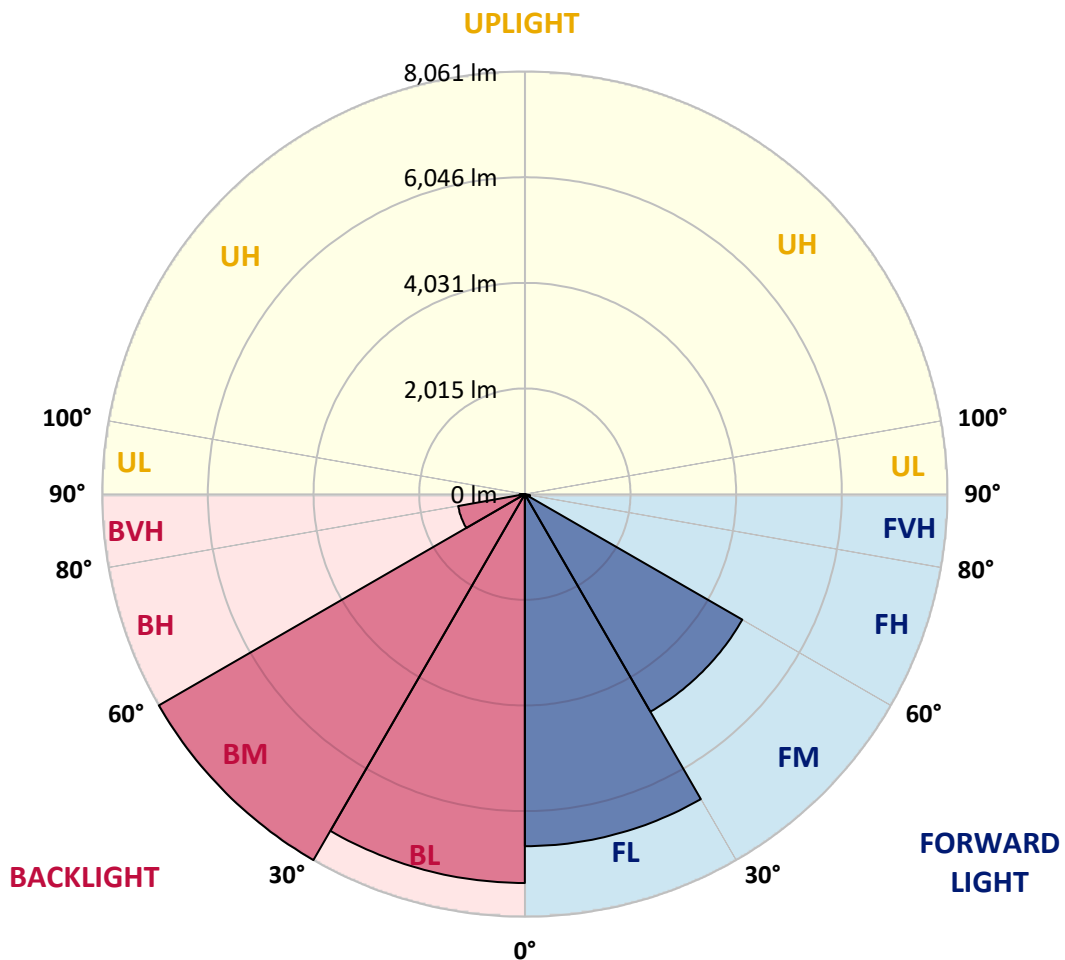
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6715.1	23.6			
FM (30°-60°)	4790.8	16.8			
FH (60°-80°)	100.4	0.4			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	7418.1	26.0	B5		
BM (30°-60°)	8061.2	28.3	B4/8500		
BH (60°-80°)	1291.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	100.4	0.4			G2/225
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°	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5
2.5°	21637.4	21665.5	21513.1	21529.1	21557.2	21761.8	21709.6	21661.5	21593.3	21709.6
5°	21609.4	21625.4	21464.9	21408.8	21432.9	21617.4	21448.9	21448.9	21432.9	21412.8
7.5°	21392.7	21400.8	21276.4	21176.1	21240.3	21324.5	21200.2	21260.4	21172.1	21240.3
10°	21067.8	21015.7	20867.2	20839.2	20911.4	20991.6	20907.4	20963.5	20883.3	20935.4
12.5°	20590.5	20510.2	20389.9	20353.8	20478.1	20586.4	20518.3	20486.2	20381.9	20510.2
15°	18749.2	18689.1	18961.8	19439.2	19868.4	19960.7	19888.5	19920.6	19703.9	19740.0
17.5°	15431.8	15319.5	15612.3	16743.5	18356.1	19206.5	19142.3	18933.8	18612.8	18685.0
20°	14023.8	13991.7	13959.6	14228.4	15355.6	17934.9	18023.2	17493.7	17036.4	16936.1
22.5°	13229.6	13217.5	13185.4	13245.6	13542.4	15199.2	16210.0	15720.6	15415.8	15387.7
25°	12503.5	12483.4	12387.2	12463.4	12463.4	12559.7	13855.3	14152.2	13883.4	13851.3
27.5°	11765.4	11729.3	11713.3	11749.4	11564.8	10915.0	11243.9	12692.0	12551.6	12559.7
30°	10967.1	10955.1	10911.0	10987.2	10417.6	9611.3	9402.7	11368.3	11396.4	11388.3
32.5°	9779.8	9831.9	10032.5	10116.7	9178.1	8512.2	8163.2	9835.9	10409.6	10397.5
35°	7104.2	7104.2	7758.0	8973.5	8042.8	7541.4	7352.9	8339.7	9434.8	9474.9
37.5°	5840.6	5860.6	5989.0	6542.6	6939.7	6763.2	6707.0	7019.9	8183.2	8247.4
40°	5254.9	5254.9	5254.9	5026.3	5014.2	6093.3	6061.2	5960.9	7068.1	7208.5
42.5°	4721.4	4733.4	4741.5	4163.8	3842.9	5267.0	5194.7	5042.3	6069.2	6233.7
45°	4171.8	4191.9	4216.0	3481.9	3341.5	3790.8	4396.5	4228.0	5082.4	5295.0
47.5°	2547.2	2579.3	3124.9	2952.4	2968.4	2924.3	3586.2	3558.1	4167.8	4468.7
50°	1720.9	1732.9	1785.1	1873.3	2547.2	2298.5	2539.2	2944.4	3165.0	3622.3
52.5°	1444.1	1464.2	1335.8	1215.5	1672.7	1797.1	1773.0	2186.2	2274.5	2840.1
55°	1014.9	1079.1	1018.9	1006.9	950.7	1396.0	1343.8	1680.8	1736.9	2158.1
57.5°	104.3	120.3	208.6	750.1	621.8	790.2	958.7	1231.5	1287.7	1592.5
60°	8.0	8.0	20.1	104.3	453.3	473.3	661.9	758.2	866.5	1111.2
62.5°	0.0	4.0	8.0	16.0	72.2	252.7	332.9	397.1	521.5	718.0
65°	0.0	0.0	4.0	12.0	16.0	96.3	128.4	208.6	284.8	445.3
67.5°	0.0	0.0	4.0	8.0	12.0	24.1	44.1	76.2	152.4	252.7
70°	0.0	0.0	4.0	8.0	12.0	20.1	32.1	48.1	68.2	136.4
72.5°	0.0	0.0	4.0	4.0	8.0	20.1	24.1	32.1	48.1	68.2
75°	0.0	0.0	4.0	4.0	12.0	24.1	20.1	24.1	32.1	44.1
77.5°	0.0	0.0	4.0	8.0	12.0	24.1	20.1	24.1	24.1	28.1
80°	0.0	0.0	4.0	8.0	16.0	28.1	24.1	24.1	20.1	20.1
82.5°	0.0	0.0	4.0	12.0	16.0	36.1	36.1	32.1	16.0	12.0
85°	0.0	0.0	8.0	16.0	24.1	40.1	40.1	32.1	12.0	8.0
87.5°	0.0	0.0	8.0	12.0	20.1	28.1	40.1	32.1	12.0	4.0
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°
21677.5	0°	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5	21677.5
21609.4	2.5°	21717.7	21693.6	21773.8	21805.9	21850.0	21681.6	21577.3	21581.3	21388.7
21364.7	5°	21493.0	21497.0	21601.3	21593.3	21637.4	21545.2	21505.1	21436.9	21268.4
21055.8	7.5°	21208.2	21172.1	21272.4	21348.6	21236.3	21300.5	21208.2	21240.3	21140.0
20783.0	10°	20987.6	20903.3	20995.6	21047.8	21051.8	20987.6	20899.3	20815.1	20779.0
20357.8	12.5°	20498.2	20389.9	20546.3	20618.5	20606.5	20482.2	20381.9	20401.9	20285.6
19611.7	15°	19824.3	19828.3	19940.6	20008.8	19944.6	19916.5	19924.6	19876.4	19776.1
18580.8	17.5°	18793.4	18853.5	19150.4	19314.8	19350.9	19294.8	19266.7	19210.5	19110.3
16936.1	20°	17076.5	17437.5	17967.0	18476.5	18576.7	18560.7	18460.4	18436.3	18380.2
15307.5	22.5°	15568.2	15837.0	16450.7	17245.0	17654.1	17694.2	17573.9	17537.8	17477.6
13851.3	25°	14007.8	14296.6	14850.2	15712.6	16559.0	16731.5	16711.4	16603.1	16539.0
12559.7	27.5°	12692.0	12980.9	13482.3	14260.5	15167.1	15720.6	15772.8	15600.3	15596.3
11408.4	30°	11504.7	11901.8	12282.9	12916.7	13795.2	14625.5	14713.8	14593.4	14605.5
10353.4	32.5°	10574.0	10903.0	11227.9	11653.1	12383.2	13349.9	13694.9	13582.6	13538.4
9474.9	35°	9623.3	9848.0	10180.9	10570.0	11067.4	12026.1	12623.8	12539.6	12495.5
8287.5	37.5°	8540.2	8925.3	9166.0	9603.3	9992.4	10754.5	11596.9	11584.9	11492.6
7276.7	40°	7429.1	7834.2	8199.3	8640.5	8941.4	9547.1	10481.8	10477.7	10489.8
6229.7	42.5°	6422.2	6795.3	7236.5	7717.9	8006.7	8448.0	9450.8	9507.0	9575.2
5367.2	45°	5511.6	5848.6	6257.8	6843.4	7192.4	7445.1	8335.7	8592.4	8588.4
4597.1	47.5°	4693.3	5010.2	5355.2	5924.8	6370.1	6598.7	7336.8	7701.9	7677.8
3770.7	50°	3939.2	4220.0	4581.0	4994.2	5591.9	5792.4	6342.0	6823.4	6787.3
3004.5	52.5°	3169.0	3558.1	3863.0	4240.0	4869.8	5066.4	5491.6	5960.9	5932.8
2254.4	55°	2471.0	2848.1	3217.1	3542.1	4071.6	4364.4	4669.3	5150.6	5142.6
1765.0	57.5°	1869.3	2282.5	2631.5	2940.3	3361.5	3722.6	3967.3	4404.5	4460.7
1207.4	60°	1383.9	1700.8	2077.9	2422.9	2755.8	3128.9	3293.4	3722.6	3746.6
826.3	62.5°	942.7	1291.7	1660.7	1973.6	2222.3	2607.4	2755.8	3108.8	3153.0
529.5	65°	653.9	878.5	1299.7	1524.3	1829.2	2158.1	2306.5	2587.3	2675.6
304.9	67.5°	433.2	625.8	1014.9	1219.5	1520.3	1745.0	1933.5	2162.1	2258.4
192.5	70°	236.7	461.3	726.1	962.7	1223.5	1440.1	1624.6	1809.1	1893.4
88.3	72.5°	160.5	308.9	505.4	762.2	986.8	1199.4	1363.9	1500.3	1504.3
52.1	75°	80.2	208.6	385.1	589.7	770.2	978.8	1127.2	1207.4	1111.2
32.1	77.5°	48.1	152.4	312.9	473.3	625.8	790.2	874.5	918.6	762.2
24.1	80°	28.1	108.3	244.7	377.1	433.2	581.7	661.9	673.9	509.4
16.0	82.5°	20.1	80.2	192.5	276.8	264.8	409.2	497.4	481.4	324.9
12.0	85°	12.0	56.2	120.3	172.5	160.5	268.8	288.8	296.8	188.5
8.0	87.5°	8.0	32.1	64.2	92.3	76.2	116.3	116.3	140.4	92.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21677.5  
*21140.0*  
21228.3  
20971.5  
20618.5  
20185.3  
19675.9  
19066.1  
18251.8  
17461.6  
16470.8  
15588.3  
14545.3  
13542.4  
12435.3  
11568.8  
10489.8  
9539.1  
8596.4  
7685.8  
6819.4  
5993.0  
5162.7  
4436.6  
3782.7  
3161.0  
2655.5  
2246.4  
1861.3  
1468.2  
1038.9  
734.1  
477.4  
300.9  
172.5  
80.2  
0.0

(END OF REPORT)