

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: P638455

Luminaire Tested: **IFLD-S-SA3C-750-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638455  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-750-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15969.4 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

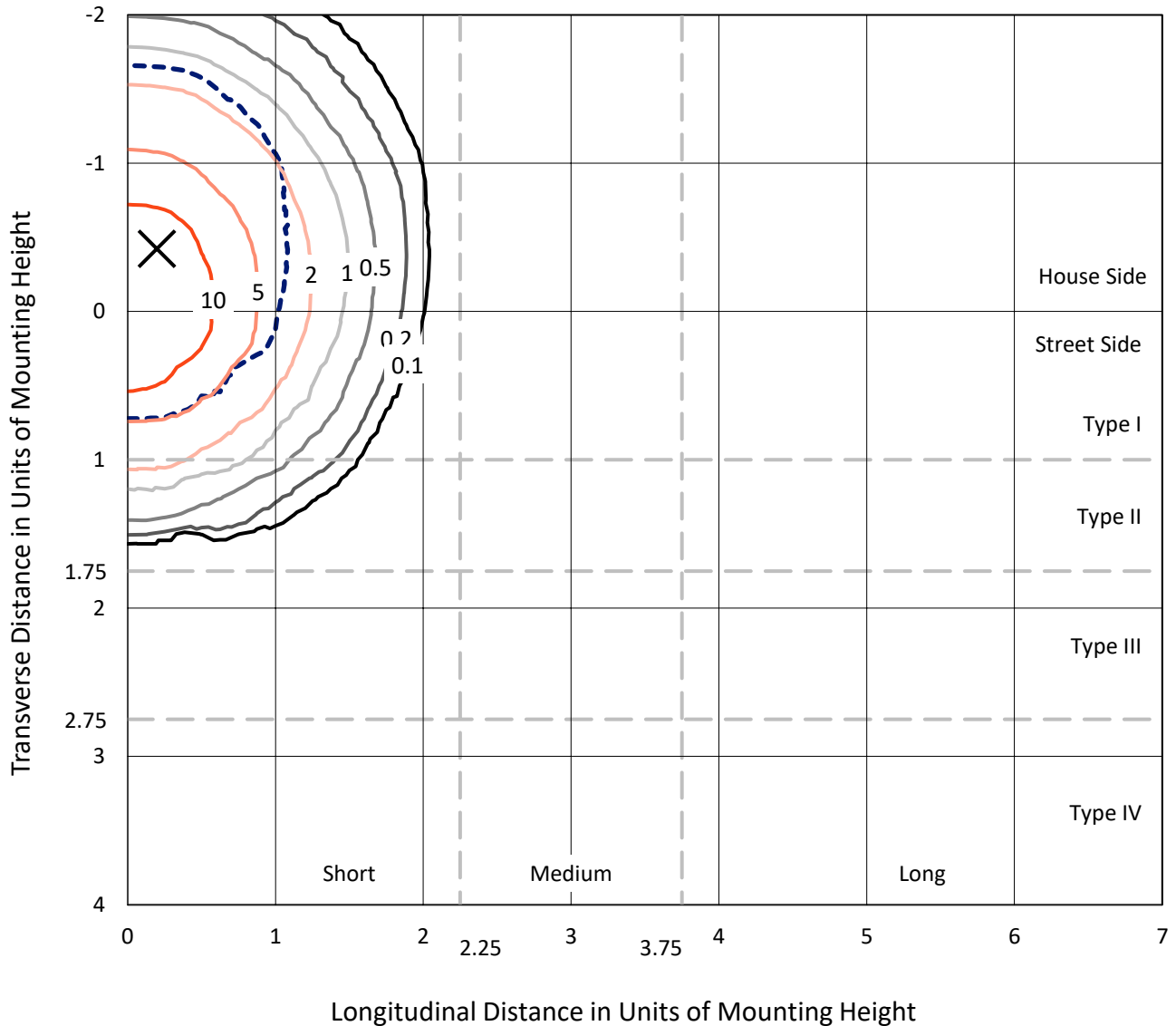
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

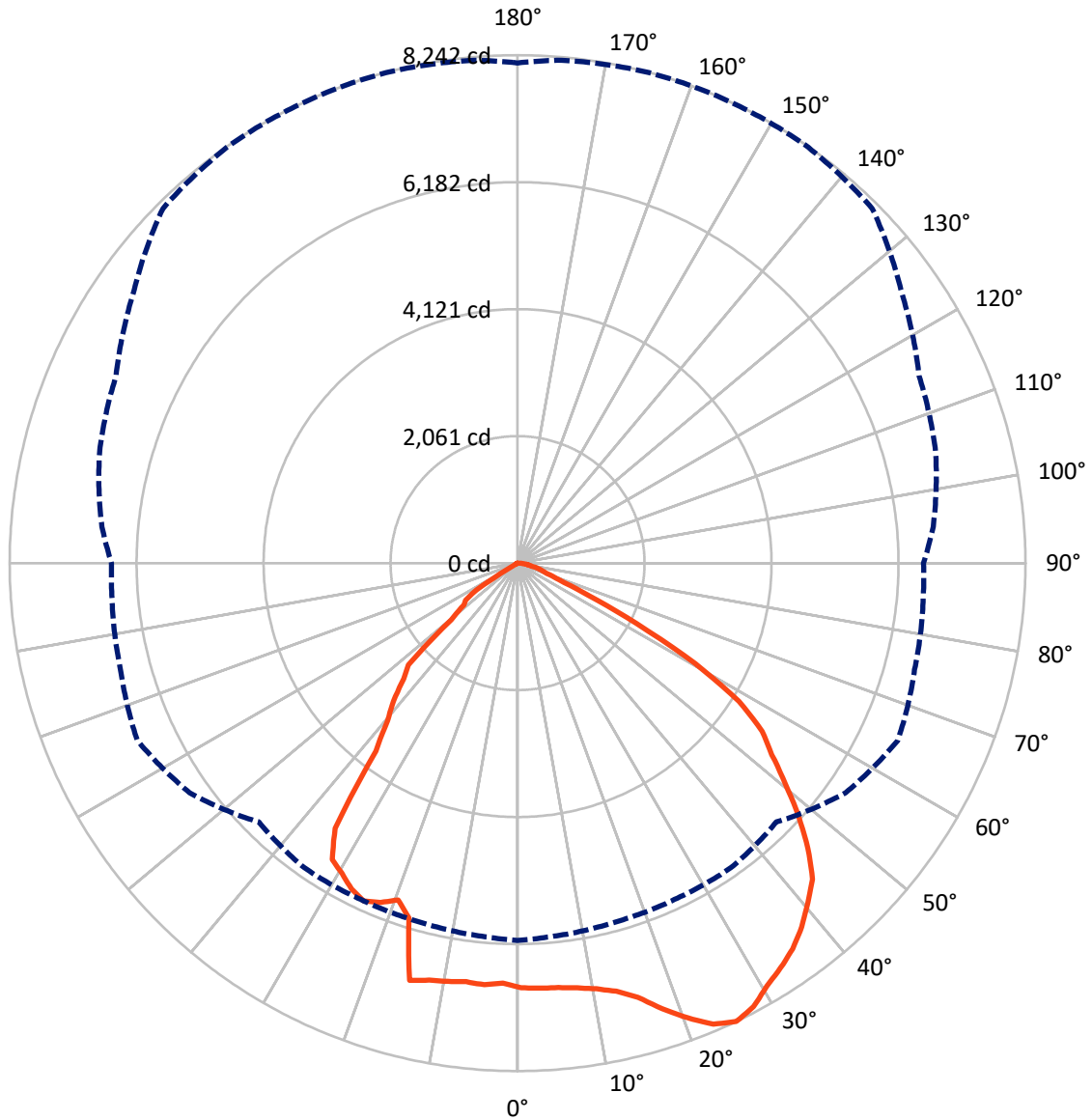
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.2 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	9886.7	0.0	9886.7
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6082.7	0.0	6082.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	15969.4	0.0	15969.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.1	4.1
10°-20°	2018.5	12.6
20°-30°	3191.1	20.0
30°-40°	3604.7	22.6
40°-50°	3375.8	21.1
50°-60°	2327.4	14.6
60°-70°	625.3	3.9
70°-80°	130.3	0.8
80°-90°	35.2	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°	15969.4	100.0
0°-180°	15969.4	100.0



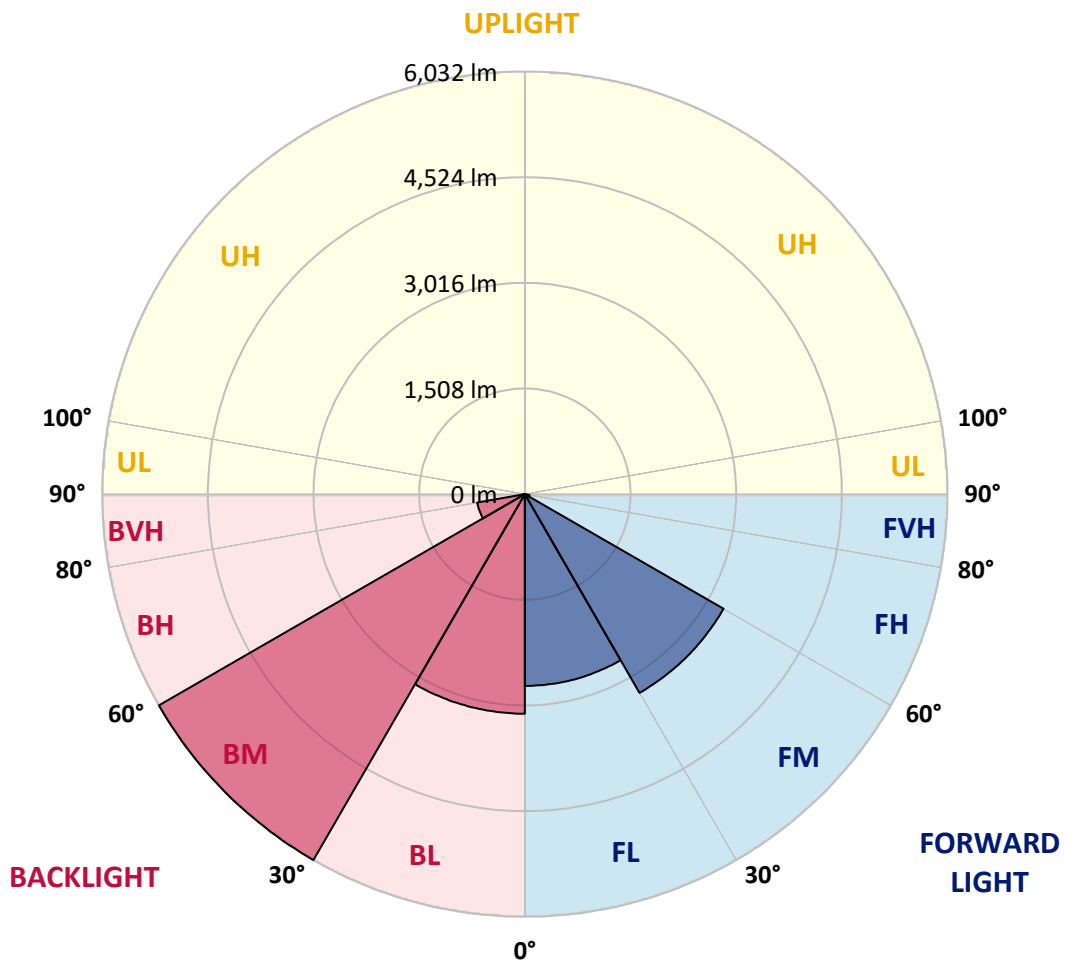
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2736.6	17.1			
FM (30°-60°)	3275.7	20.5			
FH (60°-80°)	65.6	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3134.0	19.6	B4/5000		
BM (30°-60°)	6032.2	37.8	B4/8500		
BH (60°-80°)	690.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	30.5	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°	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5
2.5°	6921.0	6876.4	6834.2	6820.1	6878.8	6942.1	6902.2	6904.6	6890.5	6916.3
5°	6972.7	6911.6	6883.5	6862.4	6871.7	6937.5	6881.1	6902.2	6878.8	6909.3
7.5°	6953.9	6911.6	6883.5	6843.6	6874.1	6951.5	6897.6	6899.9	6888.2	6916.3
10°	6942.1	6911.6	6876.4	6881.1	6916.3	6982.0	6939.8	6963.3	6946.8	6963.3
12.5°	6970.3	6937.5	6918.7	6918.7	6949.2	7024.3	7003.2	7024.3	7017.2	7031.3
15°	6705.1	6735.6	6914.0	6993.8	7054.8	7129.9	7120.5	7141.6	7146.3	7167.4
17.5°	5656.0	5625.5	5611.5	6022.2	7113.5	7345.8	7338.8	7336.4	7313.0	7296.5
20°	5794.5	5782.8	5766.3	5796.9	5918.9	7458.5	7505.4	7216.7	7132.2	7125.2
22.5°	6015.1	5996.3	5935.3	5937.7	5975.2	6484.5	7273.1	7010.2	6982.0	6965.6
25°	6123.1	6085.5	6036.2	6022.2	6033.9	5940.0	6496.2	6808.4	6669.9	6606.5
27.5°	5933.0	5935.3	5895.4	5933.0	5888.4	5465.9	5228.9	6414.1	6409.4	6381.2
30°	5789.8	5782.8	5735.8	5782.8	5475.3	5003.6	4902.7	5982.3	5933.0	5895.4
32.5°	5350.9	5355.6	5491.8	5674.8	5170.2	4797.1	4492.0	5343.9	5810.9	5789.8
35°	3827.8	3837.2	4320.7	5224.2	4707.9	4386.4	4362.9	4618.7	5618.5	5627.9
37.5°	3684.6	3684.6	3672.9	3820.8	4344.1	4219.7	4266.7	4240.9	5146.8	5170.2
40°	3581.4	3560.3	3543.8	3311.5	3020.5	4102.4	4135.2	4017.9	4865.1	4869.8
42.5°	3457.0	3433.5	3438.2	3008.7	2703.6	3811.4	3719.8	3562.6	4395.8	4400.4
45°	3229.3	3269.2	3297.4	2633.2	2609.8	2722.4	3431.2	3332.6	4078.9	4165.8
47.5°	1642.8	1678.0	2574.6	2422.0	2476.0	2419.7	2898.4	2900.8	3393.6	3682.3
50°	1490.3	1480.9	1483.2	1412.8	2285.9	1957.3	2095.8	2659.0	2717.7	3130.8
52.5°	1389.4	1387.0	1243.9	1105.4	1436.3	1722.6	1520.8	1924.5	2020.7	2652.0
55°	1027.9	1103.0	981.0	1039.7	898.9	1380.0	1372.9	1736.7	1769.6	2126.3
57.5°	9.4	11.7	28.2	790.9	621.9	690.0	948.1	1185.2	1243.9	1656.9
60°	2.3	4.7	11.7	23.5	403.7	424.8	633.7	685.3	772.1	988.0
62.5°	0.0	0.0	4.7	11.7	21.1	173.7	201.8	220.6	340.3	504.6
65°	0.0	0.0	2.3	7.0	11.7	28.2	49.3	103.3	147.9	183.1
67.5°	0.0	0.0	2.3	4.7	9.4	14.1	28.2	39.9	63.4	108.0
70°	0.0	0.0	2.3	4.7	7.0	11.7	18.8	28.2	37.6	54.0
72.5°	0.0	0.0	2.3	4.7	4.7	14.1	14.1	21.1	28.2	35.2
75°	0.0	0.0	2.3	2.3	4.7	9.4	14.1	16.4	18.8	28.2
77.5°	0.0	0.0	2.3	4.7	7.0	9.4	11.7	18.8	16.4	16.4
80°	0.0	0.0	2.3	7.0	7.0	11.7	14.1	18.8	11.7	11.7
82.5°	0.0	0.0	2.3	9.4	7.0	23.5	23.5	25.8	9.4	9.4
85°	0.0	0.0	7.0	4.7	14.1	23.5	21.1	14.1	11.7	7.0
87.5°	0.0	0.0	2.3	2.3	4.7	7.0	16.4	14.1	4.7	4.7
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°
6890.5	0°	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5	6890.5
6848.3	2.5°	6942.1	6911.6	6975.0	6968.0	6937.5	6923.4	6906.9	6892.9	6789.6
6853.0	5°	6944.5	6897.6	6975.0	6960.9	6956.2	6932.8	6918.7	6939.8	6845.9
6871.7	7.5°	6944.5	6897.6	6982.0	6986.7	6979.7	6960.9	6958.6	6972.7	6895.2
6904.6	10°	6991.4	6972.7	7043.1	7050.1	7040.7	7036.0	7024.3	7014.9	6932.8
7017.2	12.5°	7090.0	7052.5	7132.2	7153.4	7146.3	7158.1	7129.9	7144.0	7059.5
7132.2	15°	7209.7	7212.0	7273.1	7320.0	7315.3	7352.9	7310.6	7348.2	7287.1
7263.7	17.5°	7392.8	7418.6	7505.4	7575.8	7601.6	7629.8	7601.6	7613.4	7526.5
7118.2	20°	7200.3	7296.5	7714.3	7843.4	7897.3	7923.2	7876.2	7890.3	7803.5
6939.8	22.5°	7026.6	7151.0	7521.8	7925.5	8092.1	8143.8	8127.3	8125.0	8092.1
6587.8	25°	6770.8	7021.9	7188.6	7615.7	8139.1	8232.9	8242.3	8240.0	8190.7
6371.8	27.5°	6456.3	6512.7	6944.5	7205.0	7810.5	8167.2	8153.1	8085.1	8019.4
5923.6	30°	6055.0	6310.8	6505.6	6921.0	7385.7	7965.4	7965.4	7913.8	7845.7
5764.0	32.5°	5850.8	6181.7	6362.5	6512.7	6909.3	7740.1	7834.0	7780.0	7726.0
5639.6	35°	5742.9	5792.2	6214.6	6350.7	6686.3	7305.9	7686.1	7632.1	7592.2
5308.7	37.5°	5505.8	5620.8	5818.0	6181.7	6285.0	6951.5	7489.0	7460.8	7413.9
4879.2	40°	4977.8	5285.2	5588.0	5933.0	6040.9	6496.2	7249.6	7261.3	7198.0
4421.6	42.5°	4665.6	4874.5	5348.6	5580.9	5872.0	6202.9	7017.2	7036.0	6991.4
4189.2	45°	4299.5	4531.9	4865.1	5287.6	5684.2	5799.2	6606.5	6803.7	6766.1
3726.9	47.5°	3963.9	4151.7	4560.0	4987.2	5426.0	5409.6	6134.8	6505.6	6454.0
3372.5	50°	3487.5	3816.1	4008.5	4400.4	5055.2	5099.8	5632.6	6155.9	6113.7
2865.6	52.5°	2940.7	3353.7	3722.2	4081.3	4679.7	4785.3	5165.5	5799.2	5771.0
2189.7	55°	2569.9	2870.3	3285.7	3574.3	4224.4	4506.1	4815.8	5458.9	5444.8
1800.1	57.5°	1828.2	2407.9	2750.6	3154.2	3496.9	4006.2	4236.2	4766.6	4635.1
997.4	60°	1239.2	1511.4	1929.2	2363.3	2593.3	3102.6	3316.2	3741.0	3705.8
596.1	62.5°	654.8	905.9	1204.0	1422.2	1588.9	2084.1	2173.2	2630.9	2619.1
239.4	65°	288.7	382.5	652.4	765.1	936.4	1166.4	1243.9	1408.1	1368.2
117.3	67.5°	150.2	227.6	368.5	453.0	570.3	657.1	720.5	772.1	805.0
77.4	70°	91.5	166.6	227.6	314.5	391.9	462.3	511.6	582.0	624.3
39.9	72.5°	68.1	105.6	157.2	241.7	284.0	366.1	415.4	467.0	504.6
32.9	75°	37.6	70.4	126.7	190.1	227.6	298.1	342.6	377.9	389.6
18.8	77.5°	23.5	54.0	105.6	147.9	178.4	241.7	230.0	262.9	291.0
14.1	80°	16.4	39.9	82.1	122.0	124.4	154.9	183.1	211.2	230.0
9.4	82.5°	11.7	32.9	61.0	93.9	82.1	119.7	143.2	164.3	119.7
7.0	85°	9.4	23.5	30.5	56.3	46.9	84.5	72.8	70.4	46.9
4.7	87.5°	7.0	11.7	21.1	25.8	18.8	18.8	23.5	28.2	23.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
6890.5  
6719.2  
6766.1  
6806.0  
6864.7  
6984.4  
7186.2  
7451.4  
7742.4  
7986.5  
**8115.6**  
7967.7  
7819.9  
7681.4  
7535.9  
7366.9  
7183.9  
6986.7  
6770.8  
6491.5  
6120.7  
5789.8  
5461.2  
4621.1  
3708.1  
2621.5  
1351.8  
805.0  
626.6  
511.6  
382.5  
295.7  
232.3  
86.8  
46.9  
23.5  
0.0

(END OF REPORT)