

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: P638471

Luminaire Tested: **IFLD-L-SA7D-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638471
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36775.2 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

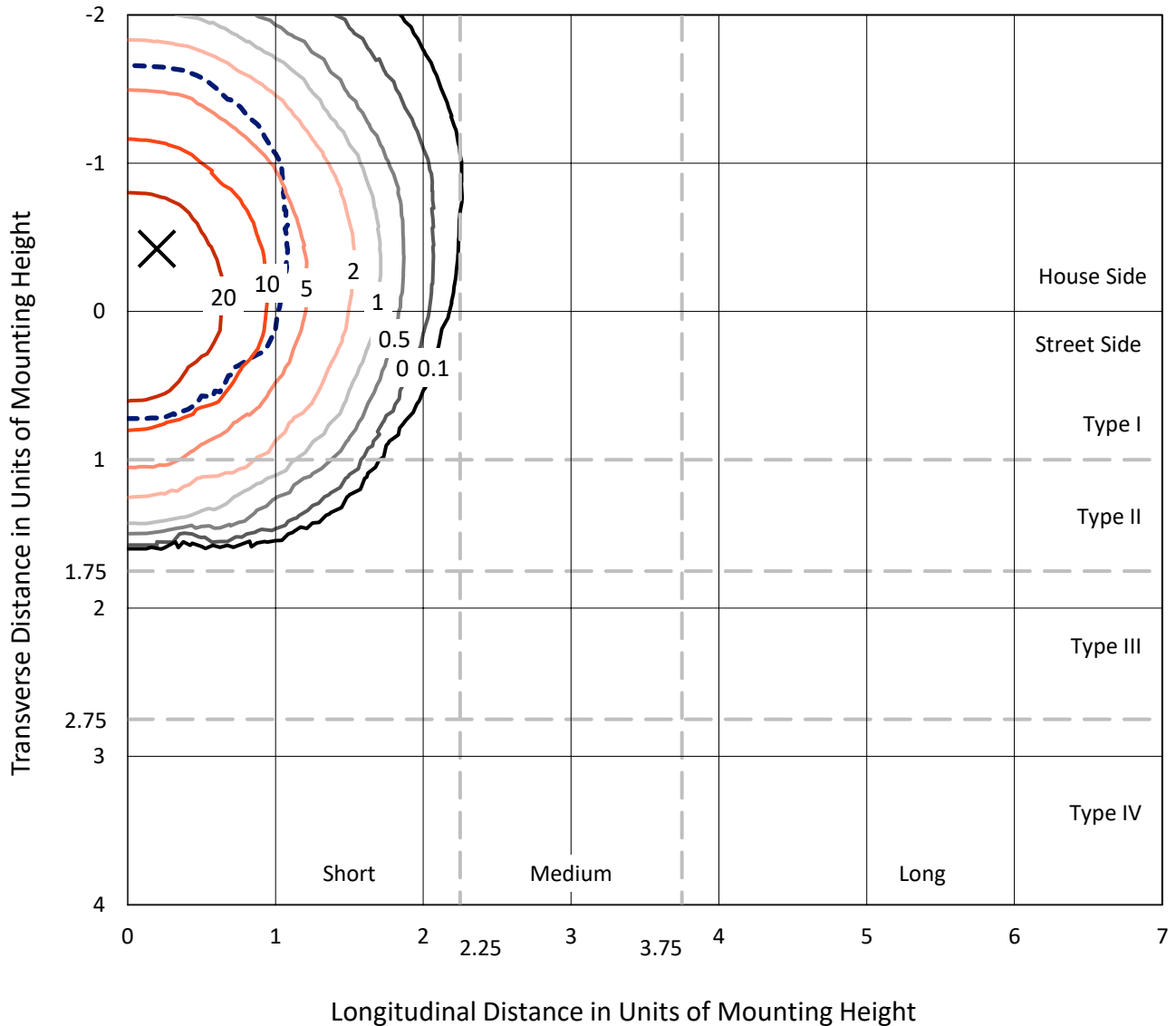
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

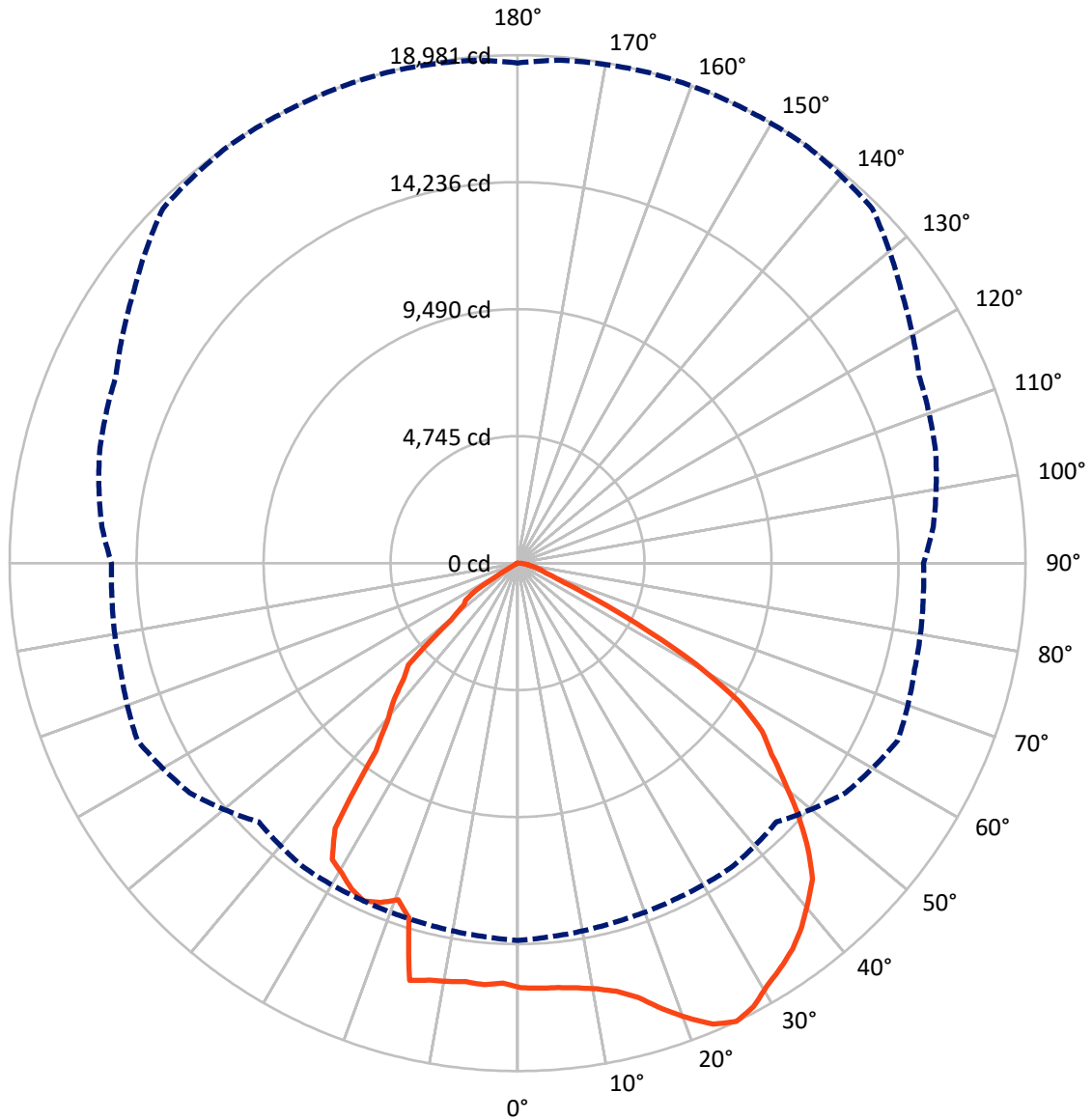
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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
House Side	Lumens	22767.6	0.0	22767.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	14007.6	0.0	14007.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	36775.2	0.0	36775.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1522.3	4.1
10°-20°	4648.3	12.6
20°-30°	7348.7	20.0
30°-40°	8301.0	22.6
40°-50°	7774.1	21.1
50°-60°	5359.7	14.6
60°-70°	1440.0	3.9
70°-80°	300.1	0.8
80°-90°	81.2	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°	36775.2	100.0
0°-180°	36775.2	100.0



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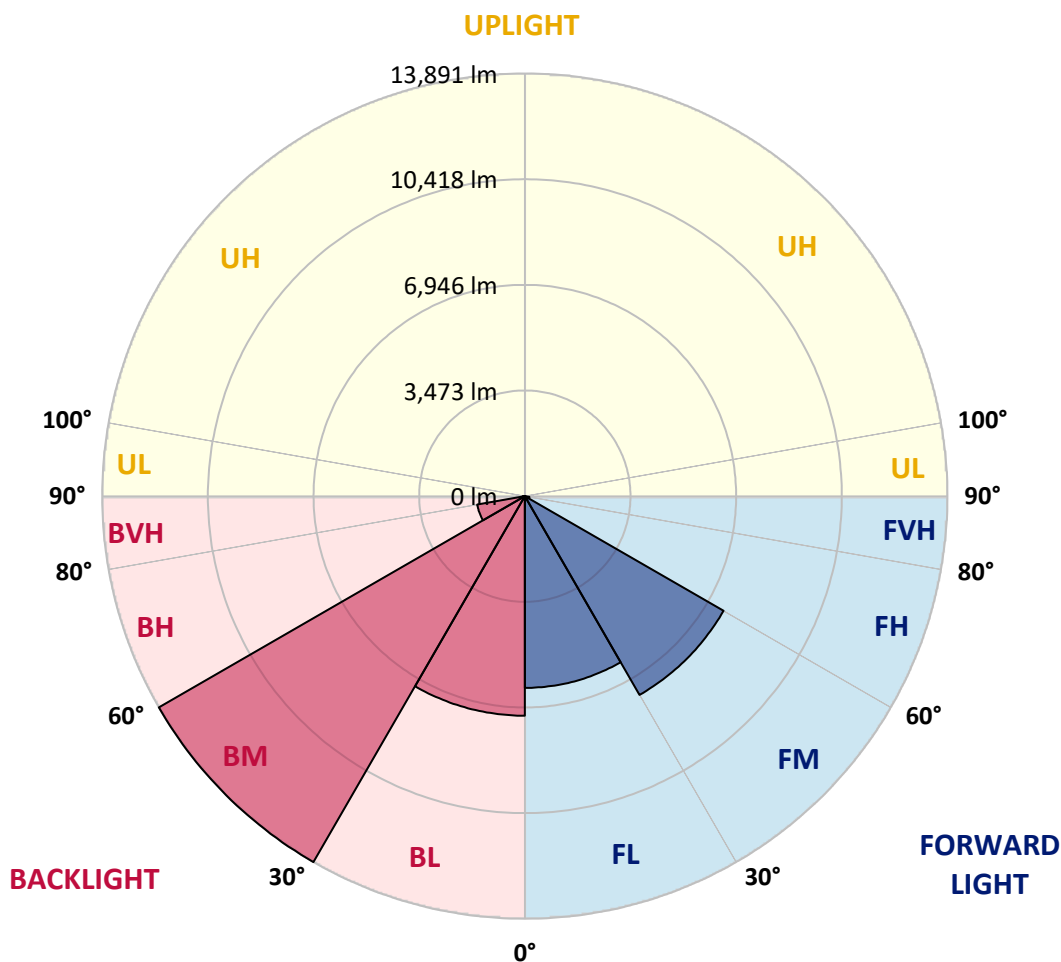
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6302.1	17.1			
FM (30°-60°)	7543.4	20.5			
FH (60°-80°)	151.2	0.4			G0/660
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	7217.2	19.6	B5		
BM (30°-60°)	13891.3	37.8	B5		
BH (60°-80°)	1588.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	70.3	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°	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9
2.5°	15938.1	15835.4	15738.2	15705.7	15840.8	15986.8	15894.9	15900.3	15867.9	15927.3
5°	16057.0	15916.5	15851.7	15803.0	15824.6	15976.0	15846.3	15894.9	15840.8	15911.1
7.5°	16013.8	15916.5	15851.7	15759.8	15830.0	16008.4	15884.1	15889.5	15862.5	15927.3
10°	15986.8	15916.5	15835.4	15846.3	15927.3	16078.6	15981.4	16035.4	15997.6	16035.4
12.5°	16051.6	15976.0	15932.7	15932.7	16003.0	16175.9	16127.3	16175.9	16159.7	16192.1
15°	15440.9	15511.2	15921.9	16105.7	16246.2	16419.1	16397.5	16446.2	16457.0	16505.6
17.5°	13025.1	12954.8	12922.4	13868.2	16381.3	16916.4	16900.1	16894.7	16840.7	16802.9
20°	13343.9	13316.9	13279.1	13349.3	13630.4	17175.8	17283.9	16619.1	16424.5	16408.3
22.5°	13852.0	13808.7	13668.2	13673.6	13760.1	14932.9	16748.8	16143.5	16078.6	16040.8
25°	14100.6	14014.1	13900.6	13868.2	13895.2	13679.0	14959.9	15678.7	15359.8	15213.9
27.5°	13662.8	13668.2	13576.3	13662.8	13560.1	12587.3	12041.4	14770.7	14759.9	14695.1
30°	13333.1	13316.9	13208.8	13316.9	12608.9	11522.6	11290.2	13776.3	13662.8	13576.3
32.5°	12322.5	12333.3	12646.7	13068.3	11906.3	11047.0	10344.4	12306.2	13381.8	13333.1
35°	8814.9	8836.5	9949.8	12030.6	10841.6	10101.2	10047.1	10636.2	12938.6	12960.2
37.5°	8485.2	8485.2	8458.2	8798.7	10003.9	9717.4	9825.5	9766.1	11852.3	11906.3
40°	8247.4	8198.8	8160.9	7625.9	6955.7	9447.2	9522.9	9252.7	11203.7	11214.5
42.5°	7961.0	7906.9	7917.7	6928.7	6226.1	8777.1	8566.3	8204.2	10122.8	10133.6
45°	7436.7	7528.6	7593.4	6063.9	6009.9	6269.3	7901.5	7674.5	9393.2	9593.1
47.5°	3783.2	3864.3	5928.8	5577.5	5701.8	5572.1	6674.7	6680.1	7815.0	8479.8
50°	3431.9	3410.3	3415.7	3253.6	5264.1	4507.4	4826.3	6123.4	6258.5	7209.7
52.5°	3199.5	3194.1	2864.4	2545.6	3307.6	3967.0	3502.2	4431.8	4653.4	6107.2
55°	2367.2	2540.2	2259.1	2394.2	2070.0	3177.9	3161.7	3999.4	4075.1	4896.6
57.5°	21.6	27.0	64.9	1821.3	1432.2	1588.9	2183.5	2729.3	2864.4	3815.6
60°	5.4	10.8	27.0	54.0	929.6	978.2	1459.2	1578.1	1778.1	2275.3
62.5°	0.0	0.0	10.8	27.0	48.6	399.9	464.8	508.0	783.7	1162.0
65°	0.0	0.0	5.4	16.2	27.0	64.9	113.5	237.8	340.5	421.6
67.5°	0.0	0.0	5.4	10.8	21.6	32.4	64.9	91.9	145.9	248.6
70°	0.0	0.0	5.4	10.8	16.2	27.0	43.2	64.9	86.5	124.3
72.5°	0.0	0.0	5.4	10.8	10.8	32.4	32.4	48.6	64.9	81.1
75°	0.0	0.0	5.4	5.4	10.8	21.6	32.4	37.8	43.2	64.9
77.5°	0.0	0.0	5.4	10.8	16.2	21.6	27.0	43.2	37.8	37.8
80°	0.0	0.0	5.4	16.2	16.2	27.0	32.4	43.2	27.0	27.0
82.5°	0.0	0.0	5.4	21.6	16.2	54.0	54.0	59.5	21.6	21.6
85°	0.0	0.0	16.2	10.8	32.4	54.0	48.6	32.4	27.0	16.2
87.5°	0.0	0.0	5.4	5.4	10.8	16.2	37.8	32.4	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°
15867.9	0°	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9	15867.9
15770.6	2.5°	15986.8	15916.5	16062.4	16046.2	15976.0	15943.5	15905.7	15873.3	15635.5
15781.4	5°	15992.2	15884.1	16062.4	16030.0	16019.2	15965.2	15932.7	15981.4	15765.2
15824.6	7.5°	15992.2	15884.1	16078.6	16089.5	16073.2	16030.0	16024.6	16057.0	15878.7
15900.3	10°	16100.3	16057.0	16219.2	16235.4	16213.8	16203.0	16175.9	16154.3	15965.2
16159.7	12.5°	16327.3	16240.8	16424.5	16473.2	16457.0	16484.0	16419.1	16451.6	16257.0
16424.5	15°	16602.9	16608.3	16748.8	16856.9	16846.1	16932.6	16835.3	16921.8	16781.2
16727.2	17.5°	17024.5	17083.9	17283.9	17446.0	17505.5	17570.3	17505.5	17532.5	17332.5
16392.1	20°	16581.3	16802.9	17764.9	18062.1	18186.4	18245.9	18137.8	18170.2	17970.3
15981.4	22.5°	16181.3	16467.8	17321.7	18251.3	18635.0	18753.9	18716.1	18710.7	18635.0
15170.7	25°	15592.2	16170.5	16554.3	17537.9	18743.1	18959.3	18980.9	18975.5	18862.0
14673.5	27.5°	14868.0	14997.7	15992.2	16592.1	17986.5	18808.0	18775.5	18618.8	18467.5
13641.2	30°	13943.8	14532.9	14981.5	15938.1	17008.2	18343.2	18343.2	18224.3	18067.5
13273.7	32.5°	13473.6	14235.7	14651.8	14997.7	15911.1	17824.3	18040.5	17916.2	17791.9
12987.2	35°	13225.0	13338.5	14311.3	14624.8	15397.7	16824.5	17700.0	17575.7	17483.8
12225.2	37.5°	12679.2	12944.0	13398.0	14235.7	14473.5	16008.4	17246.0	17181.2	17073.1
11236.1	40°	11463.1	12171.1	12868.3	13662.8	13911.4	14959.9	16694.8	16721.8	16575.9
10182.2	42.5°	10744.3	11225.3	12317.1	12852.1	13522.3	14284.3	16159.7	16203.0	16100.3
9647.2	45°	9901.2	10436.3	11203.7	12176.5	13089.9	13354.7	15213.9	15667.9	15581.4
8582.5	47.5°	9128.3	9560.7	10501.1	11484.7	12495.4	12457.6	14127.6	14981.5	14862.6
7766.4	50°	8031.2	8787.9	9231.0	10133.6	11641.5	11744.2	12971.0	14176.2	14079.0
6599.0	52.5°	6771.9	7723.2	8571.7	9398.6	10776.7	11020.0	11895.5	13354.7	13289.9
5042.5	55°	5918.0	6609.8	7566.4	8231.2	9728.3	10376.8	11090.2	12571.1	12538.6
4145.3	57.5°	4210.2	5545.1	6334.2	7263.8	8052.8	9225.6	9755.3	10976.7	10674.1
2296.9	60°	2853.6	3480.6	4442.6	5442.4	5972.1	7144.9	7636.7	8614.9	8533.8
1372.8	62.5°	1507.9	2086.2	2772.6	3275.2	3658.9	4799.3	5004.6	6058.5	6031.5
551.3	65°	664.8	880.9	1502.5	1761.9	2156.4	2686.1	2864.4	3242.8	3150.9
270.2	67.5°	345.9	524.2	848.5	1043.1	1313.3	1513.3	1659.2	1778.1	1853.8
178.4	70°	210.8	383.7	524.2	724.2	902.6	1064.7	1178.2	1340.3	1437.6
91.9	72.5°	156.7	243.2	362.1	556.7	654.0	843.1	956.6	1075.5	1162.0
75.7	75°	86.5	162.1	291.8	437.8	524.2	686.4	789.1	870.1	897.2
43.2	77.5°	54.0	124.3	243.2	340.5	410.7	556.7	529.6	605.3	670.2
32.4	80°	37.8	91.9	189.2	281.0	286.4	356.7	421.6	486.4	529.6
21.6	82.5°	27.0	75.7	140.5	216.2	189.2	275.6	329.7	378.3	275.6
16.2	85°	21.6	54.0	70.3	129.7	108.1	194.6	167.5	162.1	108.1
10.8	87.5°	16.2	27.0	48.6	59.5	43.2	43.2	54.0	64.9	54.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15867.9
15473.3
15581.4
15673.3
15808.4
16084.1
16548.8
17159.6
17829.7
18391.8
18689.1
18348.6
18008.1
17689.2
17354.1
16965.0
16543.4
16089.5
15592.2
14949.1
14095.2
13333.1
12576.5
10641.6
8539.2
6036.9
3113.0
1853.8
1443.0
1178.2
880.9
681.0
535.1
200.0
108.1
54.0
0.0

(END OF REPORT)