

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: P638355

Luminaire Tested: **IFLD-L-SA7D-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638355  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30066.6 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

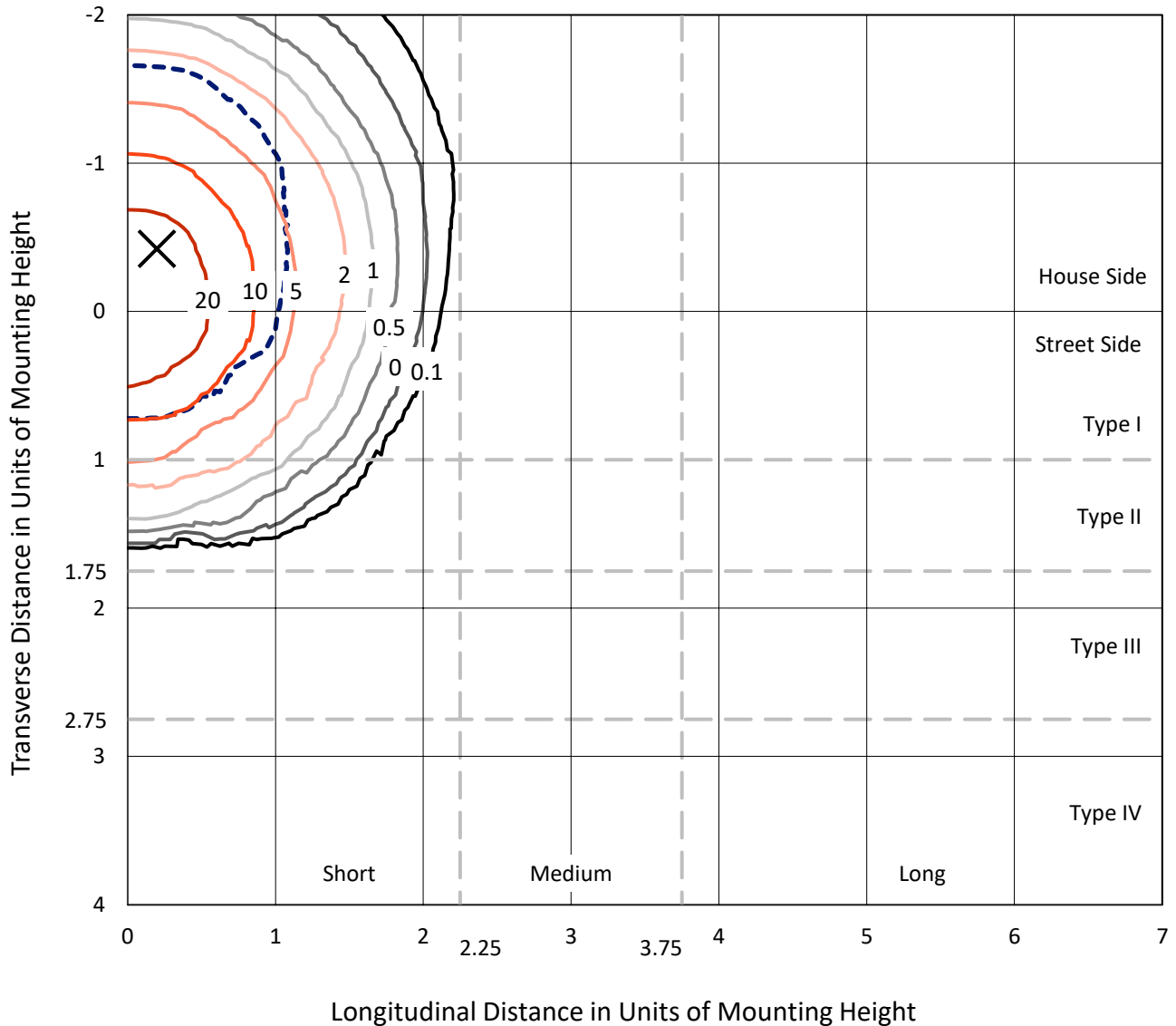
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

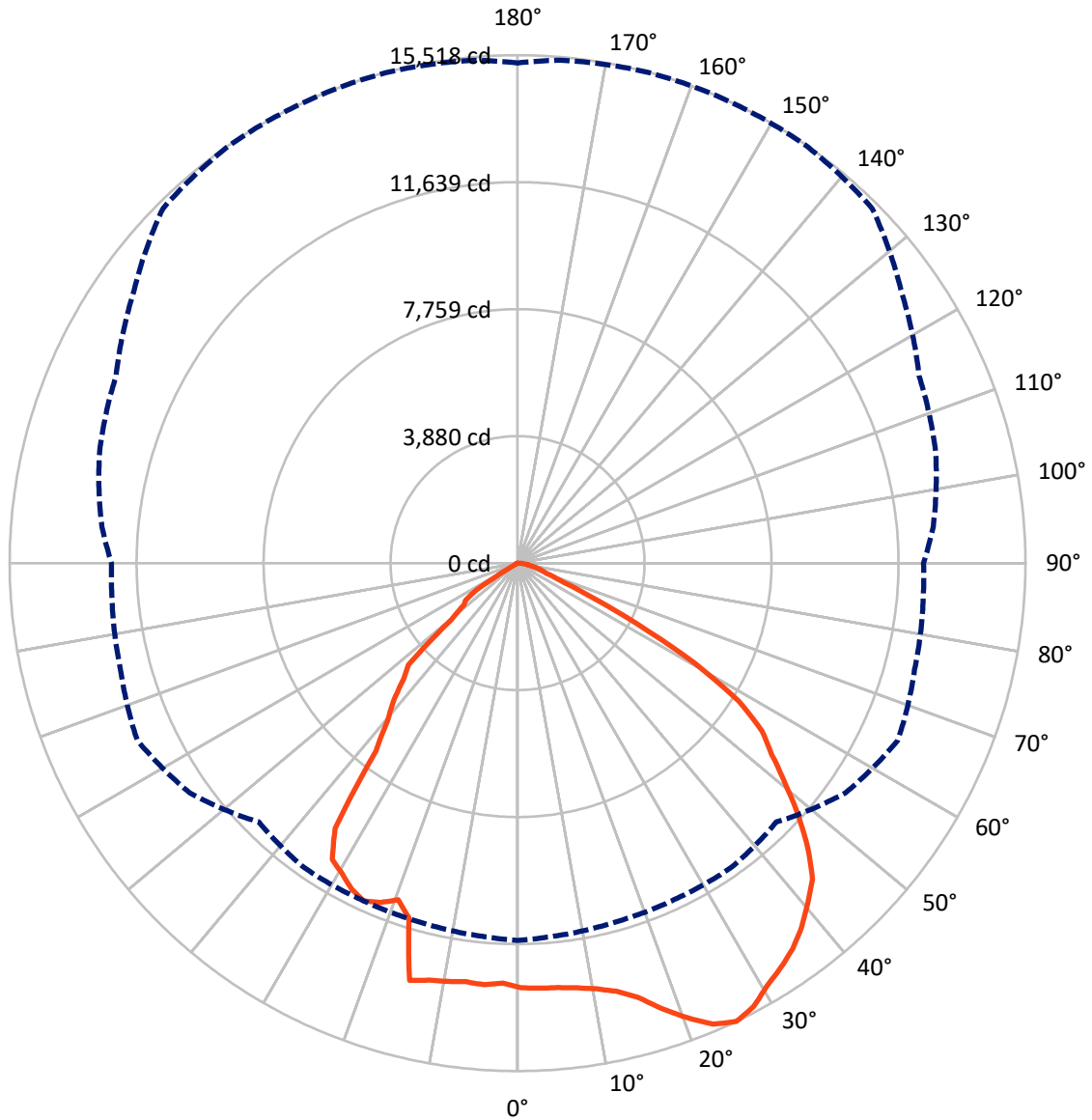
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.4 fc  
 Type I - Short - N/A

REPORT NUMBER: P638355  
CATALOG NUMBER: IFLD-L-SA7D-727-U-LAM-VI

### 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	18614.3	0.0	18614.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	11452.3	0.0	11452.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	30066.6	0.0	30066.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1244.6	4.1
10°-20°	3800.3	12.6
20°-30°	6008.1	20.0
30°-40°	6786.7	22.6
40°-50°	6355.9	21.1
50°-60°	4381.9	14.6
60°-70°	1177.3	3.9
70°-80°	245.3	0.8
80°-90°	66.4	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°	30066.6	100.0
0°-180°	30066.6	100.0



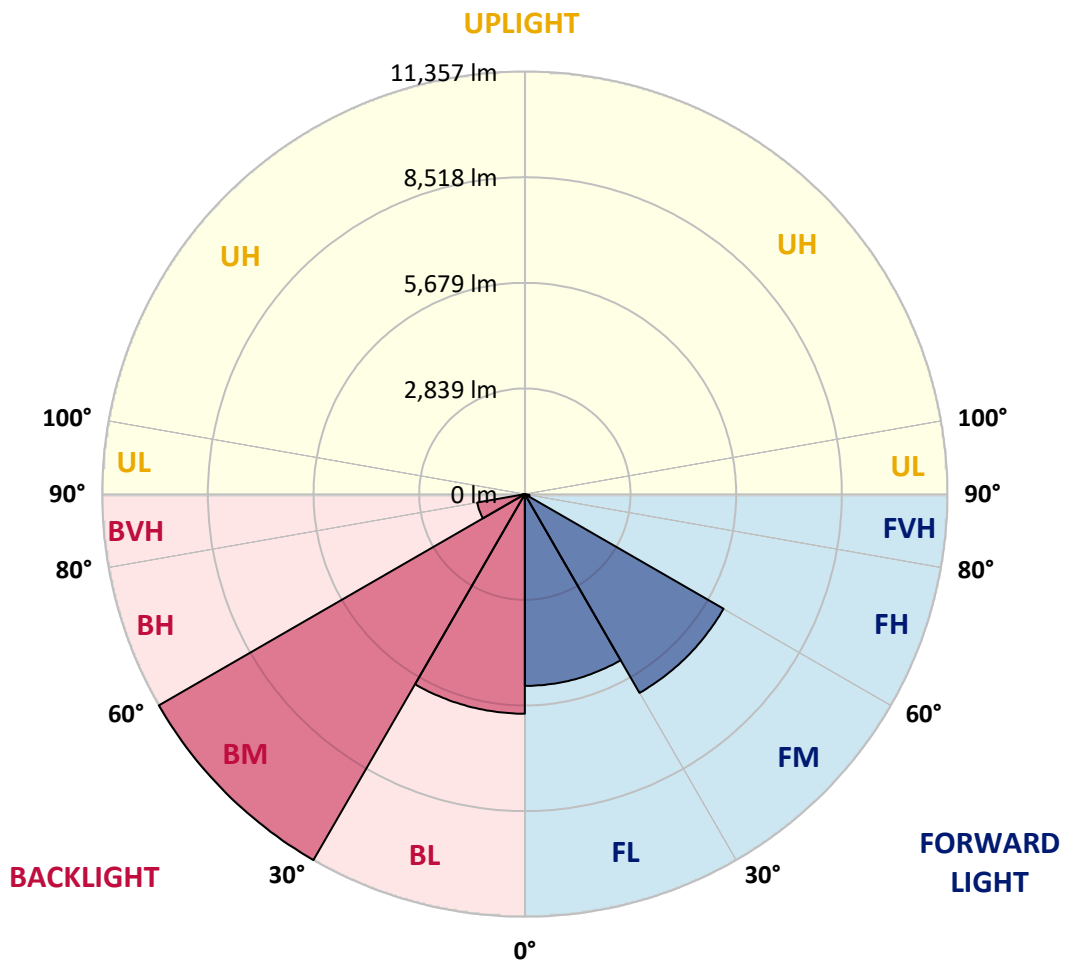
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 CATALOG NUMBER: IFLD-L-SA7D-727-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5152.5	17.1			
FM (30°-60°)	6167.3	20.5			
FH (60°-80°)	123.6	0.4			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	5900.6	19.6	B5		
BM (30°-60°)	11357.2	37.8	B5		
BH (60°-80°)	1299.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2
2.5°	13030.7	12946.7	12867.2	12840.7	12951.1	13070.4	12995.3	12999.7	12973.2	13021.8
5°	13127.9	13013.0	12960.0	12920.2	12937.9	13061.6	12955.5	12995.3	12951.1	13008.6
7.5°	13092.5	13013.0	12960.0	12884.8	12942.3	13088.1	12986.5	12990.9	12968.8	13021.8
10°	13070.4	13013.0	12946.7	12955.5	13021.8	13145.5	13066.0	13110.2	13079.3	13110.2
12.5°	13123.4	13061.6	13026.2	13026.2	13083.7	13225.1	13185.3	13225.1	13211.8	13238.3
15°	12624.1	12681.6	13017.4	13167.6	13282.5	13423.9	13406.2	13446.0	13454.8	13494.6
17.5°	10649.0	10591.6	10565.0	11338.3	13393.0	13830.4	13817.2	13812.8	13768.6	13737.6
20°	10909.7	10887.6	10856.7	10914.1	11143.9	14042.5	14130.9	13587.4	13428.3	13415.1
22.5°	11325.0	11289.7	11174.8	11179.2	11249.9	12208.8	13693.5	13198.6	13145.5	13114.6
25°	11528.3	11457.6	11364.8	11338.3	11360.4	11183.7	12230.9	12818.6	12557.9	12438.6
27.5°	11170.4	11174.8	11099.7	11170.4	11086.4	10291.1	9844.8	12076.2	12067.4	12014.4
30°	10900.9	10887.6	10799.2	10887.6	10308.8	9420.6	9230.6	11263.2	11170.4	11099.7
32.5°	10074.6	10083.4	10339.7	10684.3	9734.3	9031.8	8457.3	10061.3	10940.6	10900.9
35°	7206.8	7224.5	8134.8	9836.0	8863.9	8258.5	8214.3	8695.9	10578.3	10596.0
37.5°	6937.3	6937.3	6915.2	7193.6	8179.0	7944.8	8033.1	7984.5	9690.1	9734.3
40°	6742.9	6703.1	6672.2	6234.7	5686.8	7723.8	7785.7	7564.8	9159.9	9168.7
42.5°	6508.7	6464.5	6473.4	5664.7	5090.3	7175.9	7003.6	6707.5	8276.2	8285.0
45°	6080.1	6155.2	6208.2	4957.7	4913.6	5125.7	6460.1	6274.5	7679.6	7843.1
47.5°	3093.1	3159.3	4847.3	4560.1	4661.7	4555.6	5457.1	5461.5	6389.4	6932.9
50°	2805.9	2788.2	2792.6	2660.0	4303.8	3685.2	3945.9	5006.4	5116.8	5894.5
52.5°	2615.9	2611.4	2341.9	2081.2	2704.2	3243.3	2863.3	3623.3	3804.5	4993.1
55°	1935.4	2076.8	1847.0	1957.5	1692.4	2598.2	2584.9	3269.8	3331.7	4003.3
57.5°	17.7	22.1	53.0	1489.1	1170.9	1299.1	1785.1	2231.4	2341.9	3119.6
60°	4.4	8.8	22.1	44.2	760.0	799.8	1193.0	1290.3	1453.7	1860.3
62.5°	0.0	0.0	8.8	22.1	39.8	327.0	380.0	415.4	640.7	950.0
65°	0.0	0.0	4.4	13.3	22.1	53.0	92.8	194.4	278.4	344.7
67.5°	0.0	0.0	4.4	8.8	17.7	26.5	53.0	75.1	119.3	203.3
70°	0.0	0.0	4.4	8.8	13.3	22.1	35.3	53.0	70.7	101.6
72.5°	0.0	0.0	4.4	8.8	8.8	26.5	26.5	39.8	53.0	66.3
75°	0.0	0.0	4.4	4.4	8.8	17.7	26.5	30.9	35.3	53.0
77.5°	0.0	0.0	4.4	8.8	13.3	17.7	22.1	35.3	30.9	30.9
80°	0.0	0.0	4.4	13.3	13.3	22.1	26.5	35.3	22.1	22.1
82.5°	0.0	0.0	4.4	17.7	13.3	44.2	44.2	48.6	17.7	17.7
85°	0.0	0.0	13.3	8.8	26.5	44.2	39.8	26.5	22.1	13.3
87.5°	0.0	0.0	4.4	4.4	8.8	13.3	30.9	26.5	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638355  
 CATALOG NUMBER: IFLD-L-SA7D-727-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
12973.2	0°	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2	12973.2
12893.7	2.5°	13070.4	13013.0	13132.3	13119.0	13061.6	13035.1	13004.1	12977.6	12783.2
12902.5	5°	13074.8	12986.5	13132.3	13105.8	13096.9	13052.7	13026.2	13066.0	12889.3
12937.9	7.5°	13074.8	12986.5	13145.5	13154.4	13141.1	13105.8	13101.4	13127.9	12982.1
12999.7	10°	13163.2	13127.9	13260.4	13273.7	13256.0	13247.2	13225.1	13207.4	13052.7
13211.8	12.5°	13348.8	13278.1	13428.3	13468.1	13454.8	13476.9	13423.9	13450.4	13291.4
13428.3	15°	13574.2	13578.6	13693.5	13781.8	13773.0	13843.7	13764.2	13834.9	13720.0
13675.8	17.5°	13918.8	13967.4	14130.9	14263.5	14312.1	14365.1	14312.1	14334.2	14170.7
13401.8	20°	13556.5	13737.6	14524.2	14767.2	14868.8	14917.4	14829.1	14855.6	14692.1
13066.0	22.5°	13229.5	13463.7	14161.8	14921.8	15235.6	15332.8	15301.9	15297.4	15235.6
12403.2	25°	12747.9	13220.7	13534.4	14338.6	15323.9	15500.7	15518.4	15513.9	15421.2
11996.7	27.5°	12155.8	12261.8	13074.8	13565.3	14705.3	15377.0	15350.5	15222.3	15098.6
11152.7	30°	11400.2	11881.8	12248.6	13030.7	13905.6	14997.0	14997.0	14899.8	14771.6
10852.3	32.5°	11015.7	11638.8	11979.0	12261.8	13008.6	14572.8	14749.5	14647.9	14546.3
10618.1	35°	10812.5	10905.3	11700.6	11956.9	12588.8	13755.3	14471.1	14369.5	14294.4
9995.0	37.5°	10366.2	10582.7	10953.9	11638.8	11833.2	13088.1	14100.0	14046.9	13958.6
9186.4	40°	9372.0	9950.8	10520.9	11170.4	11373.7	12230.9	13649.3	13671.4	13552.1
8324.8	42.5°	8784.3	9177.6	10070.1	10507.6	11055.5	11678.5	13211.8	13247.2	13163.2
7887.3	45°	8095.0	8532.5	9159.9	9955.3	10702.0	10918.5	12438.6	12809.7	12739.0
7016.8	47.5°	7463.1	7816.6	8585.5	9389.7	10216.0	10185.0	11550.4	12248.6	12151.3
6349.6	50°	6566.1	7184.8	7547.1	8285.0	9517.8	9601.8	10604.8	11590.2	11510.6
5395.2	52.5°	5536.6	6314.3	7008.0	7684.1	8810.8	9009.7	9725.5	10918.5	10865.5
4122.6	55°	4838.4	5404.0	6186.1	6729.6	7953.6	8483.8	9067.1	10277.8	10251.3
3389.1	57.5°	3442.1	4533.6	5178.7	5938.7	6583.8	7542.7	7975.7	8974.3	8726.9
1877.9	60°	2333.1	2845.6	3632.1	4449.6	4882.6	5841.5	6243.6	7043.4	6977.1
1122.3	62.5°	1232.8	1705.6	2266.8	2677.7	2991.4	3923.8	4091.7	4953.3	4931.2
450.7	65°	543.5	720.2	1228.4	1440.5	1763.0	2196.1	2341.9	2651.2	2576.1
220.9	67.5°	282.8	428.6	693.7	852.8	1073.7	1237.2	1356.5	1453.7	1515.6
145.8	70°	172.3	313.7	428.6	592.1	737.9	870.5	963.3	1095.8	1175.4
75.1	72.5°	128.1	198.8	296.1	455.1	534.7	689.3	782.1	879.3	950.0
61.9	75°	70.7	132.6	238.6	357.9	428.6	561.2	645.1	711.4	733.5
35.3	77.5°	44.2	101.6	198.8	278.4	335.8	455.1	433.0	494.9	547.9
26.5	80°	30.9	75.1	154.7	229.8	234.2	291.6	344.7	397.7	433.0
17.7	82.5°	22.1	61.9	114.9	176.7	154.7	225.4	269.5	309.3	225.4
13.3	85°	17.7	44.2	57.4	106.0	88.4	159.1	137.0	132.6	88.4
8.8	87.5°	13.3	22.1	39.8	48.6	35.3	35.3	44.2	53.0	44.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
12973.2
12650.7
12739.0
12814.1
12924.6
13150.0
13530.0
14029.3
14577.2
15036.7
15279.8
15001.4
14723.0
14462.3
14188.3
13870.2
13525.5
13154.4
12747.9
12222.0
11523.9
10900.9
10282.2
8700.4
6981.5
4935.7
2545.2
1515.6
1179.8
963.3
720.2
556.8
437.4
163.5
88.4
44.2
0.0

(END OF REPORT)