

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: P636878

Luminaire Tested: **IFLD-L-SA8A-927-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636878  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-927-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15984.5 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

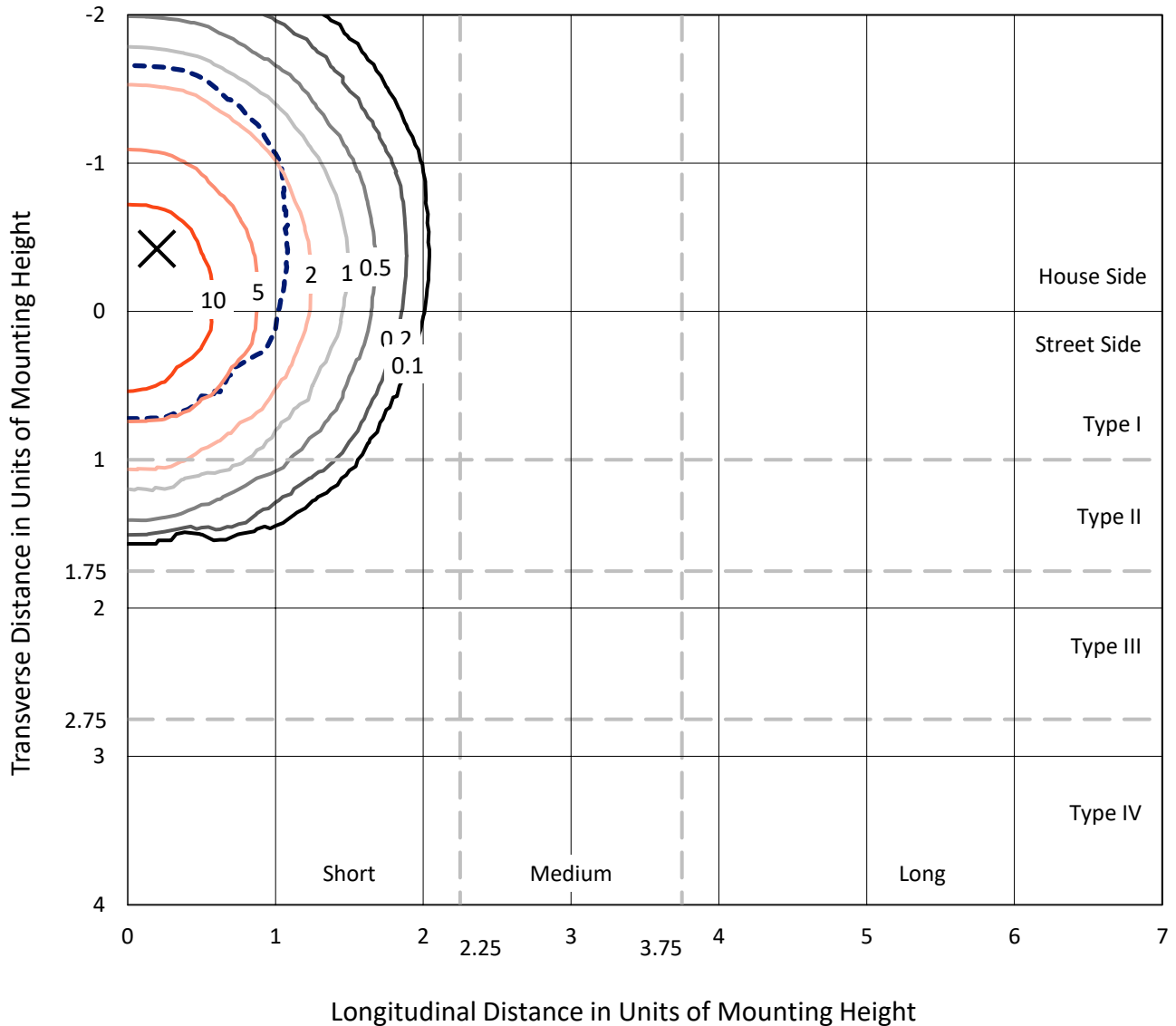
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

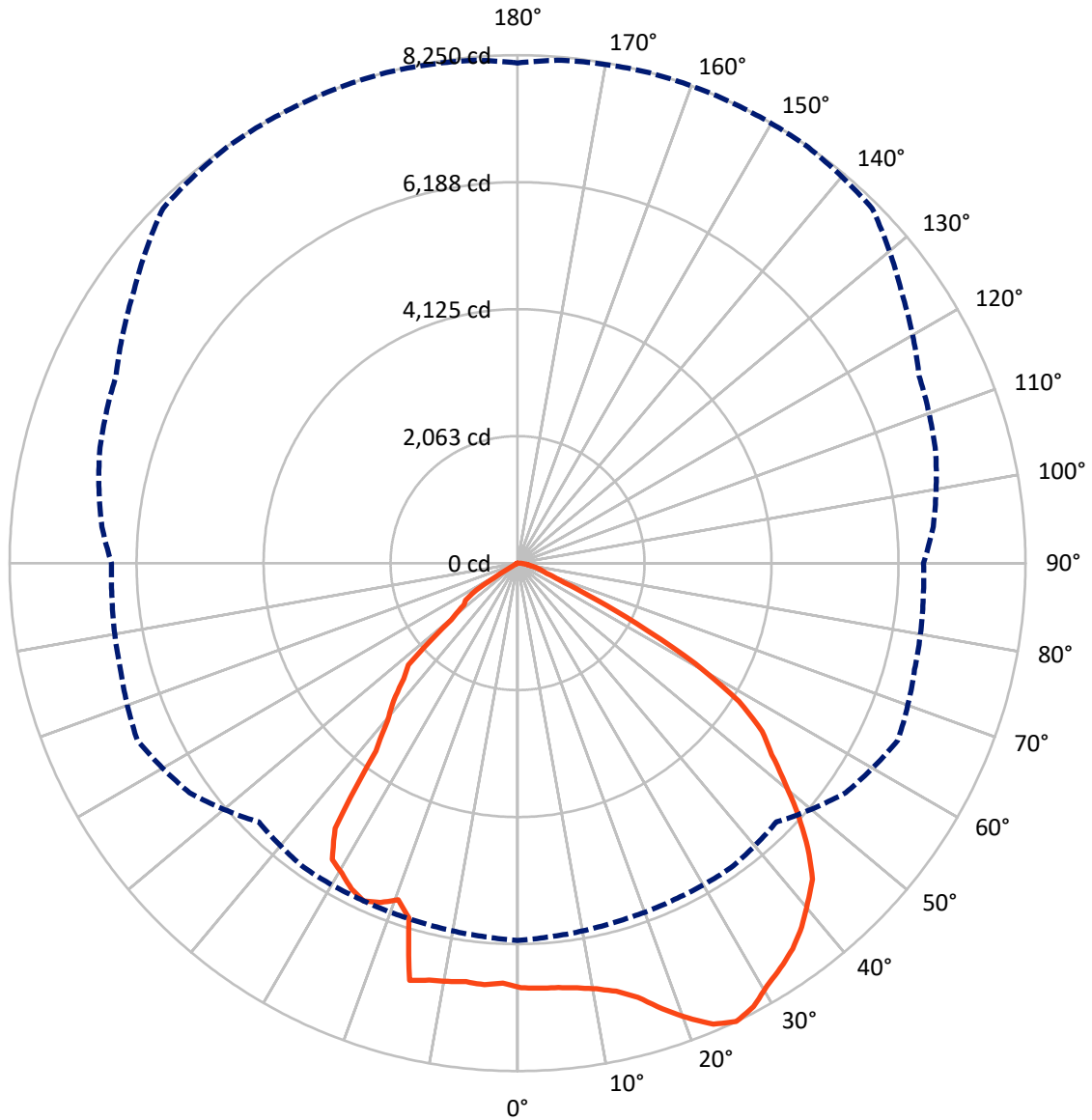
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.2 fc  
 Type I - Short - N/A

REPORT NUMBER: P636878  
CATALOG NUMBER: IFLD-L-SA8A-927-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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CATALOG NUMBER: IFLD-L-SA8A-927-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9896.1	0.0	9896.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6088.5	0.0	6088.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	15984.5	0.0	15984.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.7	4.1
10°-20°	2020.4	12.6
20°-30°	3194.2	20.0
30°-40°	3608.1	22.6
40°-50°	3379.0	21.1
50°-60°	2329.6	14.6
60°-70°	625.9	3.9
70°-80°	130.4	0.8
80°-90°	35.3	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°	15984.5	100.0
0°-180°	15984.5	100.0



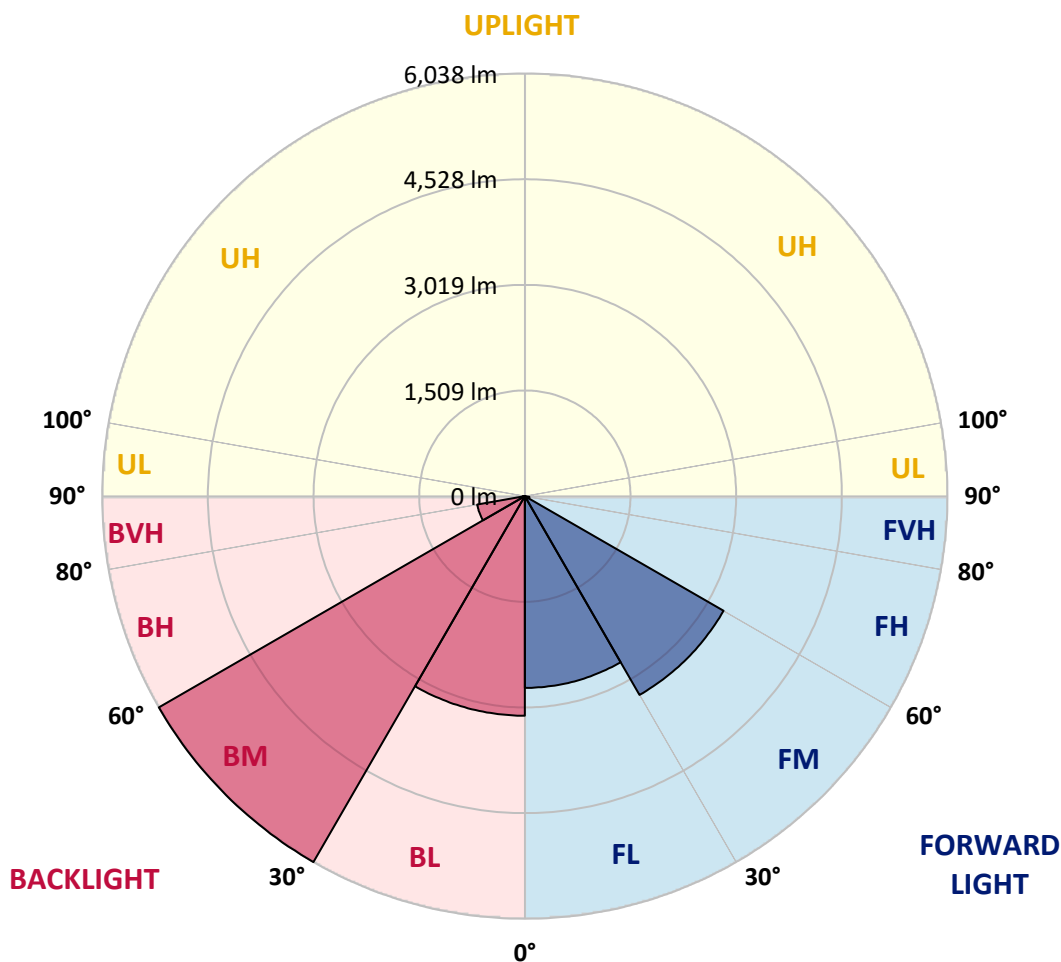
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 CATALOG NUMBER: IFLD-L-SA8A-927-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.2	17.1			
FM (30°-60°)	3278.8	20.5			
FH (60°-80°)	65.7	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3137.0	19.6	B4/5000		
BM (30°-60°)	6037.9	37.8	B4/8500		
BH (60°-80°)	690.6	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





REPORT NUMBER: P636878  
 CATALOG NUMBER: IFLD-L-SA8A-927-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1
2.5°	6927.6	6883.0	6840.7	6826.6	6885.3	6948.7	6908.8	6911.2	6897.1	6922.9
5°	6979.3	6918.2	6890.0	6868.9	6878.3	6944.0	6887.7	6908.8	6885.3	6915.9
7.5°	6960.5	6918.2	6890.0	6850.1	6880.6	6958.1	6904.1	6906.5	6894.7	6922.9
10°	6948.7	6918.2	6883.0	6887.7	6922.9	6988.7	6946.4	6969.9	6953.4	6969.9
12.5°	6976.9	6944.0	6925.2	6925.2	6955.8	7031.0	7009.8	7031.0	7023.9	7038.0
15°	6711.5	6742.0	6920.5	7000.4	7061.5	7136.7	7127.3	7148.4	7153.1	7174.3
17.5°	5661.4	5630.9	5616.8	6027.9	7120.2	7352.8	7345.7	7343.4	7319.9	7303.5
20°	5800.0	5788.3	5771.8	5802.4	5924.5	7465.5	7512.5	7223.6	7139.0	7132.0
22.5°	6020.8	6002.0	5941.0	5943.3	5980.9	6490.7	7280.0	7016.9	6988.7	6972.2
25°	6128.9	6091.3	6042.0	6027.9	6039.6	5945.7	6502.4	6814.8	6676.2	6612.8
27.5°	5938.6	5941.0	5901.0	5938.6	5894.0	5471.1	5233.9	6420.2	6415.5	6387.3
30°	5795.3	5788.3	5741.3	5788.3	5480.5	5008.4	4907.3	5987.9	5938.6	5901.0
32.5°	5356.0	5360.7	5497.0	5680.2	5175.1	4801.6	4496.2	5349.0	5816.5	5795.3
35°	3831.4	3840.8	4324.8	5229.2	4712.4	4390.5	4367.0	4623.1	5623.8	5633.2
37.5°	3688.1	3688.1	3676.4	3824.4	4348.2	4223.7	4270.7	4244.9	5151.7	5175.1
40°	3584.8	3563.6	3547.2	3314.6	3023.3	4106.3	4139.2	4021.7	4869.8	4874.5
42.5°	3460.3	3436.8	3441.5	3011.6	2706.2	3815.0	3723.4	3566.0	4399.9	4404.6
45°	3232.4	3272.3	3300.5	2635.7	2612.2	2725.0	3434.4	3335.8	4082.8	4169.7
47.5°	1644.4	1679.6	2577.0	2424.3	2478.3	2422.0	2901.2	2903.5	3396.8	3685.8
50°	1491.7	1482.3	1484.7	1414.2	2288.1	1959.2	2097.8	2661.6	2720.3	3133.7
52.5°	1390.7	1388.3	1245.0	1106.4	1437.7	1724.3	1522.2	1926.3	2022.6	2654.5
55°	1028.9	1104.1	981.9	1040.7	899.7	1381.3	1374.2	1738.4	1771.2	2128.3
57.5°	9.4	11.7	28.2	791.7	622.5	690.6	949.1	1186.3	1245.0	1658.5
60°	2.3	4.7	11.7	23.5	404.1	425.2	634.3	685.9	772.9	989.0
62.5°	0.0	0.0	4.7	11.7	21.1	173.8	202.0	220.8	340.6	505.1
65°	0.0	0.0	2.3	7.0	11.7	28.2	49.3	103.4	148.0	183.2
67.5°	0.0	0.0	2.3	4.7	9.4	14.1	28.2	39.9	63.4	108.1
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



REPORT NUMBER: P636878

CATALOG NUMBER: IFLD-L-SA8A-927-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6897.1	0°	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1
6854.8	2.5°	6948.7	6918.2	6981.6	6974.6	6944.0	6929.9	6913.5	6899.4	6796.0
6859.5	5°	6951.1	6904.1	6981.6	6967.5	6962.8	6939.3	6925.2	6946.4	6852.4
6878.3	7.5°	6951.1	6904.1	6988.7	6993.4	6986.3	6967.5	6965.2	6979.3	6901.8
6911.2	10°	6998.1	6979.3	7049.8	7056.8	7047.4	7042.7	7031.0	7021.6	6939.3
7023.9	12.5°	7096.7	7059.1	7139.0	7160.2	7153.1	7164.9	7136.7	7150.8	7066.2
7139.0	15°	7216.5	7218.9	7280.0	7327.0	7322.3	7359.8	7317.6	7355.1	7294.1
7270.6	17.5°	7399.8	7425.6	7512.5	7583.0	7608.8	7637.0	7608.8	7620.6	7533.7
7124.9	20°	7207.1	7303.5	7721.6	7850.8	7904.8	7930.7	7883.7	7897.8	7810.9
6946.4	22.5°	7033.3	7157.8	7529.0	7933.0	8099.8	8151.5	8135.1	8132.7	8099.8
6594.0	25°	6777.3	7028.6	7195.4	7622.9	8146.8	8240.8	8250.2	8247.8	8198.5
6377.9	27.5°	6462.5	6518.8	6951.1	7211.8	7817.9	8175.0	8160.9	8092.8	8027.0
5929.2	30°	6060.8	6316.8	6511.8	6927.6	7392.7	7973.0	7973.0	7921.3	7853.2
5769.5	32.5°	5856.4	6187.6	6368.5	6518.8	6915.9	7747.4	7841.4	7787.4	7733.4
5645.0	35°	5748.3	5797.7	6220.5	6356.8	6692.7	7312.9	7693.4	7639.4	7599.4
5313.7	37.5°	5511.1	5626.2	5823.5	6187.6	6291.0	6958.1	7496.1	7467.9	7420.9
4883.9	40°	4982.5	5290.3	5593.3	5938.6	6046.7	6502.4	7256.5	7268.2	7204.8
4425.8	42.5°	4670.1	4879.2	5353.7	5586.2	5877.5	6208.8	7023.9	7042.7	6998.1
4193.2	45°	4303.6	4536.2	4869.8	5292.6	5689.6	5804.7	6612.8	6810.1	6772.6
3730.4	47.5°	3967.7	4155.6	4564.4	4991.9	5431.2	5414.8	6140.6	6511.8	6460.1
3375.7	50°	3490.8	3819.7	4012.3	4404.6	5060.0	5104.7	5637.9	6161.8	6119.5
2868.3	52.5°	2943.5	3356.9	3725.7	4085.1	4684.2	4789.9	5170.4	5804.7	5776.5
2191.7	55°	2572.3	2873.0	3288.8	3577.7	4228.4	4510.3	4820.4	5464.1	5450.0
1801.8	57.5°	1830.0	2410.2	2753.2	3157.2	3500.2	4010.0	4240.2	4771.1	4639.5
998.4	60°	1240.3	1512.8	1931.0	2365.6	2595.8	3105.6	3319.3	3744.5	3709.3
596.7	62.5°	655.4	906.8	1205.1	1423.6	1590.4	2086.0	2175.3	2633.4	2621.6
239.6	65°	288.9	382.9	653.1	765.8	937.3	1167.5	1245.0	1409.5	1369.5
117.5	67.5°	150.3	227.9	368.8	453.4	570.8	657.8	721.2	772.9	805.8
77.5	70°	91.6	166.8	227.9	314.8	392.3	462.8	512.1	582.6	624.9
39.9	72.5°	68.1	105.7	157.4	242.0	284.2	366.5	415.8	467.5	505.1
32.9	75°	37.6	70.5	126.9	190.3	227.9	298.3	343.0	378.2	390.0
18.8	77.5°	23.5	54.0	105.7	148.0	178.5	242.0	230.2	263.1	291.3
14.1	80°	16.4	39.9	82.2	122.2	124.5	155.0	183.2	211.4	230.2
9.4	82.5°	11.7	32.9	61.1	94.0	82.2	119.8	143.3	164.4	119.8
7.0	85°	9.4	23.5	30.5	56.4	47.0	84.6	72.8	70.5	47.0
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°  
6897.1  
6725.6  
6772.6  
6812.5  
6871.2  
6991.0  
7193.0  
7458.5  
7749.8  
7994.1  
**8123.3**  
7975.3  
7827.3  
7688.7  
7543.1  
7373.9  
7190.7  
6993.4  
6777.3  
6497.7  
6126.5  
5795.3  
5466.4  
4625.4  
3711.6  
2624.0  
1353.1  
805.8  
627.2  
512.1  
382.9  
296.0  
232.6  
86.9  
47.0  
23.5  
0.0

(END OF REPORT)