

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: P636724

Luminaire Tested: **IFLD-M-SA4B-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636724  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11122.1 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

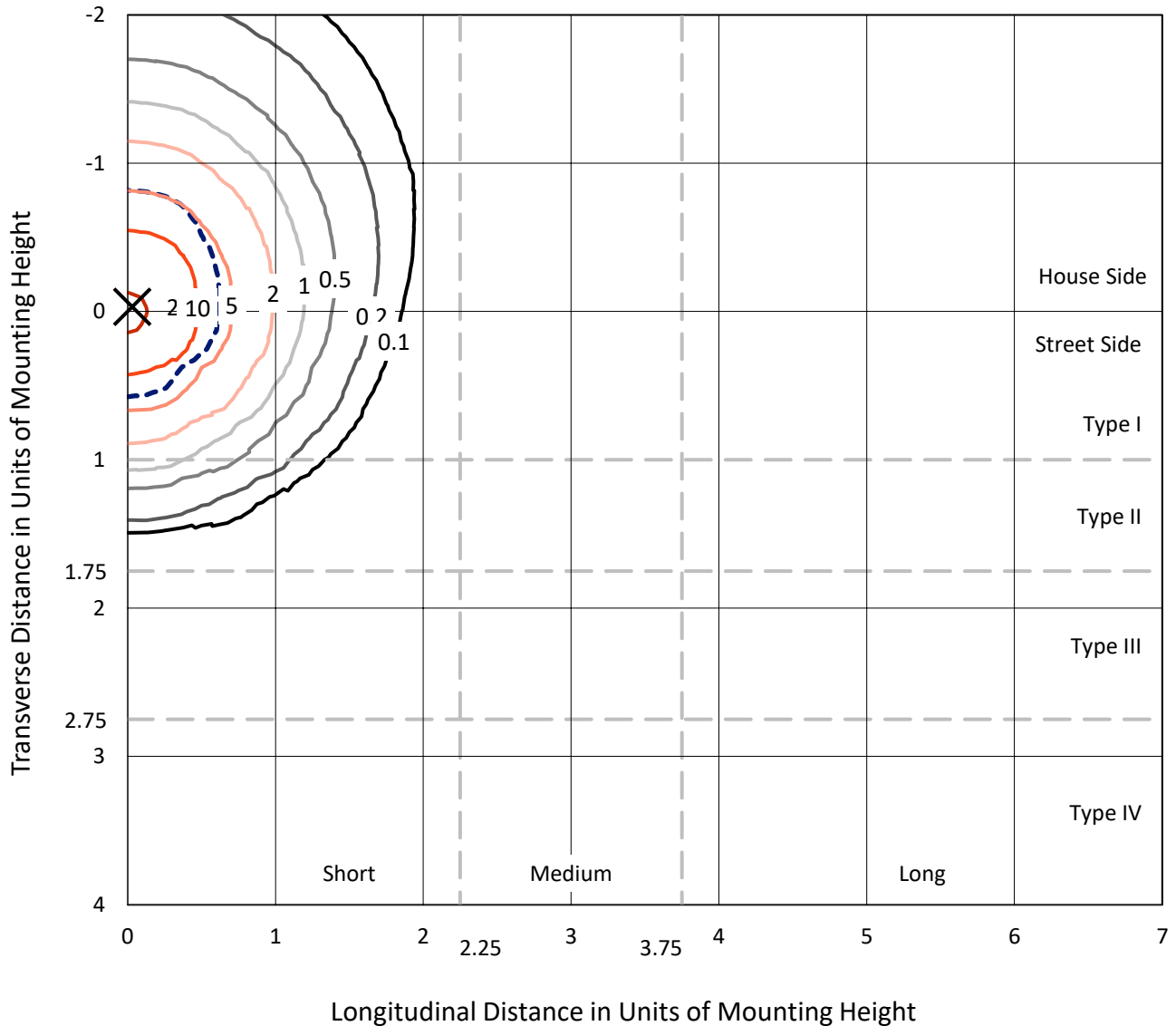
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P636724  
 CATALOG NUMBER: IFLD-M-SA4B-927-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

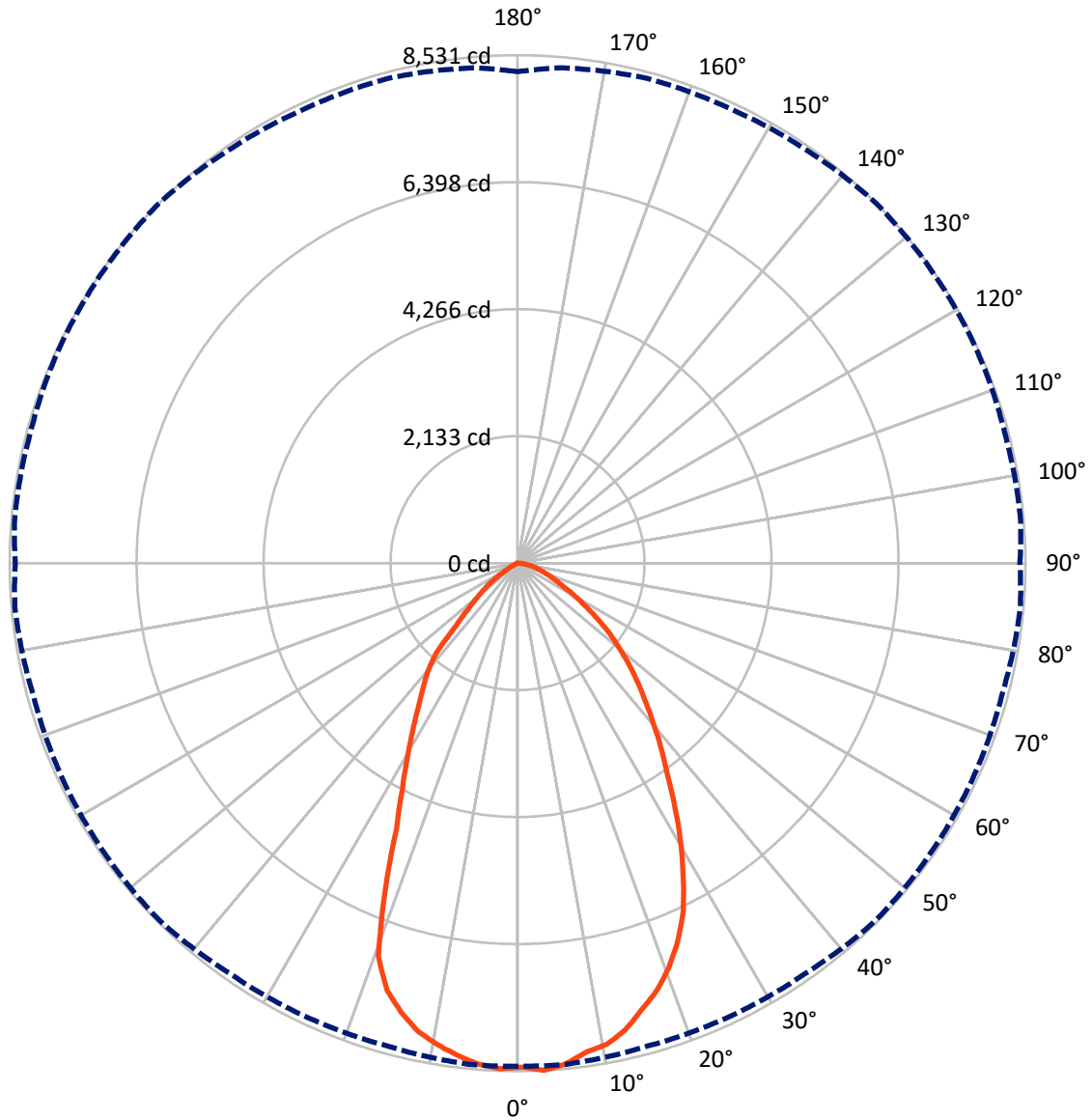
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 fc  
 Type I - Short - N/A

REPORT NUMBER: P636724  
CATALOG NUMBER: IFLD-M-SA4B-927-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P636724

CATALOG NUMBER: IFLD-M-SA4B-927-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6587.1	0.0	6587.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4535.0	0.0	4535.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	11122.1	0.0	11122.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.8	7.1
10°-20°	2128.6	19.1
20°-30°	2595.9	23.3
30°-40°	2370.0	21.3
40°-50°	1712.8	15.4
50°-60°	935.2	8.4
60°-70°	386.7	3.5
70°-80°	156.6	1.4
80°-90°	42.6	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°	11122.1	100.0
0°-180°	11122.1	100.0



REPORT NUMBER: P636724

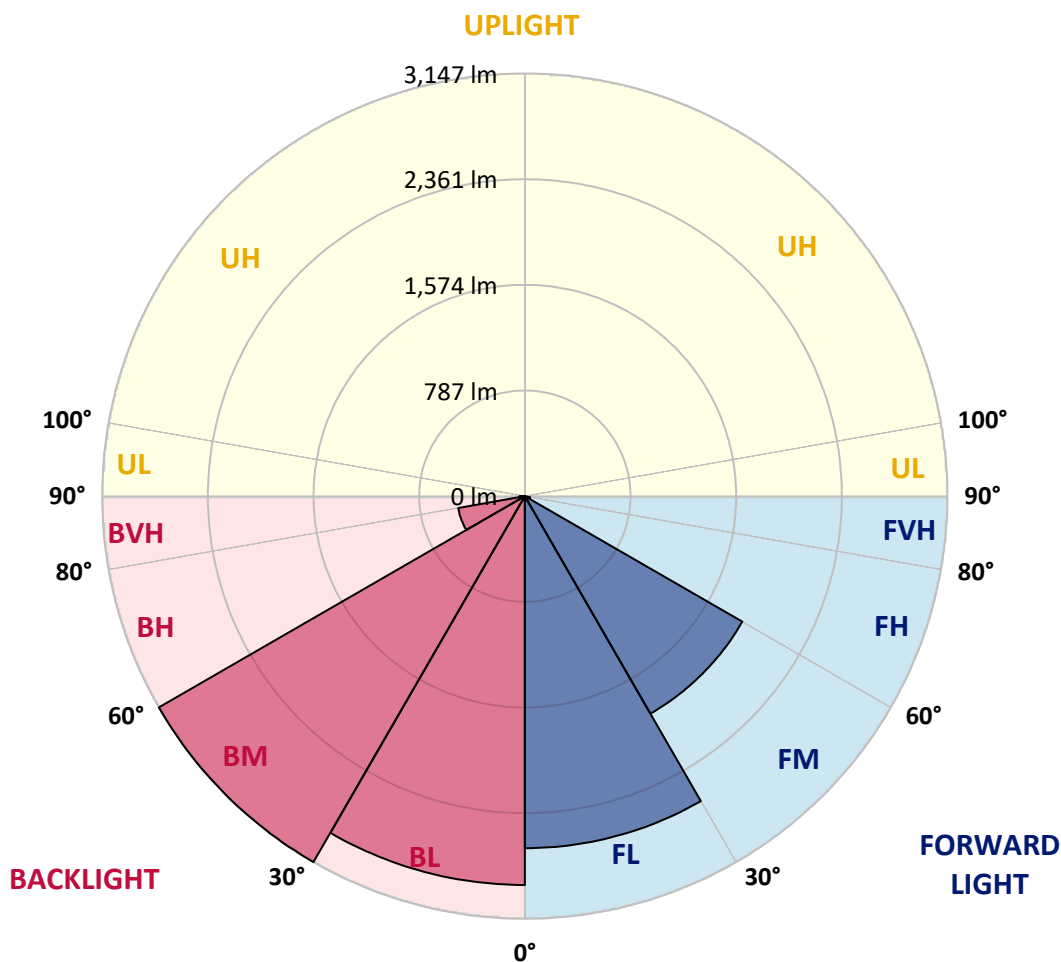
CATALOG NUMBER: IFLD-M-SA4B-927-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2621.9	23.6			
FM (30°-60°)	1870.5	16.8			
FH (60°-80°)	39.2	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2896.4	26.0	B4/5000		
BM (30°-60°)	3147.5	28.3	B3/5000		
BH (60°-80°)	504.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	39.2	0.4			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: P636724  
 CATALOG NUMBER: IFLD-M-SA4B-927-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9
2.5°	8448.2	8459.2	8399.7	8406.0	8416.9	8496.8	8476.4	8457.6	8431.0	8476.4
5°	8437.3	8443.6	8380.9	8359.0	8368.4	8440.4	8374.6	8374.6	8368.4	8360.5
7.5°	8352.7	8355.8	8307.3	8268.1	8293.2	8326.1	8277.5	8301.0	8266.6	8293.2
10°	8225.8	8205.5	8147.5	8136.6	8164.8	8196.1	8163.2	8185.1	8153.8	8174.2
12.5°	8039.5	8008.1	7961.2	7947.1	7995.6	8037.9	8011.3	7998.7	7958.0	8008.1
15°	7320.6	7297.1	7403.6	7590.0	7757.5	7793.6	7765.4	7777.9	7693.3	7707.4
17.5°	6025.3	5981.4	6095.8	6537.4	7167.1	7499.1	7474.1	7392.6	7267.3	7295.5
20°	5475.5	5463.0	5450.5	5555.4	5995.5	7002.6	7037.1	6830.3	6651.8	6612.6
22.5°	5165.4	5160.7	5148.2	5171.7	5287.6	5934.4	6329.1	6138.1	6019.0	6008.1
25°	4881.9	4874.1	4836.5	4866.3	4866.3	4903.9	5409.8	5525.7	5420.7	5408.2
27.5°	4593.8	4579.7	4573.4	4587.5	4515.4	4261.7	4390.1	4955.6	4900.7	4903.9
30°	4282.1	4277.4	4260.1	4289.9	4067.5	3752.7	3671.2	4438.7	4449.7	4446.5
32.5°	3818.5	3838.8	3917.1	3950.0	3583.5	3323.5	3187.3	3840.4	4064.4	4059.7
35°	2773.8	2773.8	3029.1	3503.7	3140.3	2944.5	2870.9	3256.2	3683.8	3699.4
37.5°	2280.4	2288.3	2338.4	2554.5	2709.6	2640.7	2618.7	2740.9	3195.1	3220.2
40°	2051.8	2051.8	2051.8	1962.5	1957.8	2379.1	2366.6	2327.4	2759.7	2814.5
42.5°	1843.5	1848.2	1851.3	1625.7	1500.4	2056.5	2028.3	1968.8	2369.7	2433.9
45°	1628.9	1636.7	1646.1	1359.5	1304.7	1480.1	1716.6	1650.8	1984.4	2067.4
47.5°	994.6	1007.1	1220.1	1152.7	1159.0	1141.8	1400.2	1389.2	1627.3	1744.8
50°	671.9	676.6	697.0	731.4	994.6	897.5	991.4	1149.6	1235.8	1414.3
52.5°	563.8	571.7	521.6	474.6	653.1	701.7	692.3	853.6	888.1	1108.9
55°	396.3	421.3	397.8	393.1	371.2	545.0	524.7	656.3	678.2	842.6
57.5°	40.7	47.0	81.4	292.9	242.8	308.5	374.3	480.8	502.8	621.8
60°	3.1	3.1	7.8	40.7	177.0	184.8	258.4	296.0	338.3	433.8
62.5°	0.0	1.6	3.1	6.3	28.2	98.7	130.0	155.1	203.6	280.4
65°	0.0	0.0	1.6	4.7	6.3	37.6	50.1	81.4	111.2	173.9
67.5°	0.0	0.0	1.6	3.1	4.7	9.4	17.2	29.8	59.5	98.7
70°	0.0	0.0	1.6	3.1	4.7	7.8	12.5	18.8	26.6	53.3
72.5°	0.0	0.0	1.6	1.6	3.1	7.8	9.4	12.5	18.8	26.6
75°	0.0	0.0	1.6	1.6	4.7	9.4	7.8	9.4	12.5	17.2
77.5°	0.0	0.0	1.6	3.1	4.7	9.4	7.8	9.4	9.4	11.0
80°	0.0	0.0	1.6	3.1	6.3	11.0	9.4	9.4	7.8	7.8
82.5°	0.0	0.0	1.6	4.7	6.3	14.1	14.1	12.5	6.3	4.7
85°	0.0	0.0	3.1	6.3	9.4	15.7	15.7	12.5	4.7	3.1
87.5°	0.0	0.0	3.1	4.7	7.8	11.0	15.7	12.5	4.7	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636724

CATALOG NUMBER: IFLD-M-SA4B-927-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8463.9	0°	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9	8463.9
8437.3	2.5°	8479.6	8470.2	8501.5	8514.0	8531.3	8465.5	8424.8	8426.3	8351.1
8341.7	5°	8391.9	8393.4	8434.2	8431.0	8448.2	8412.2	8396.6	8369.9	8304.2
8221.1	7.5°	8280.7	8266.6	8305.7	8335.5	8291.6	8316.7	8280.7	8293.2	8254.0
8114.6	10°	8194.5	8161.6	8197.7	8218.0	8219.6	8194.5	8160.1	8127.2	8113.1
7948.6	12.5°	8003.4	7961.2	8022.2	8050.4	8045.7	7997.2	7958.0	7965.9	7920.4
7657.3	15°	7740.3	7741.9	7785.7	7812.4	7787.3	7776.3	7779.5	7760.7	7721.5
7254.8	17.5°	7337.8	7361.3	7477.2	7541.4	7555.5	7533.6	7522.6	7500.7	7461.5
6612.6	20°	6667.4	6808.4	7015.1	7214.1	7253.2	7247.0	7207.8	7198.4	7176.5
5976.7	22.5°	6078.5	6183.5	6423.1	6733.2	6893.0	6908.6	6861.7	6847.6	6824.1
5408.2	25°	5469.3	5582.0	5798.2	6134.9	6465.4	6532.7	6524.9	6482.6	6457.6
4903.9	27.5°	4955.6	5068.3	5264.1	5568.0	5921.9	6138.1	6158.4	6091.1	6089.5
4454.4	30°	4492.0	4647.0	4795.8	5043.3	5386.3	5710.5	5744.9	5697.9	5702.6
4042.4	32.5°	4128.6	4257.0	4383.9	4549.9	4835.0	5212.4	5347.1	5303.3	5286.0
3699.4	35°	3757.4	3845.1	3975.1	4127.0	4321.2	4695.6	4928.9	4896.0	4878.8
3235.8	37.5°	3334.5	3484.9	3578.8	3749.6	3901.5	4199.1	4528.0	4523.3	4487.3
2841.1	40°	2900.7	3058.8	3201.4	3373.7	3491.1	3727.6	4092.6	4091.0	4095.7
2432.4	42.5°	2507.5	2653.2	2825.5	3013.4	3126.2	3298.5	3690.0	3712.0	3738.6
2095.6	45°	2152.0	2283.6	2443.3	2672.0	2808.3	2906.9	3254.6	3354.9	3353.3
1794.9	47.5°	1832.5	1956.2	2090.9	2313.3	2487.2	2576.4	2864.6	3007.2	2997.8
1472.3	50°	1538.0	1647.7	1788.6	1950.0	2183.3	2261.6	2476.2	2664.2	2650.1
1173.1	52.5°	1237.3	1389.2	1508.3	1655.5	1901.4	1978.1	2144.2	2327.4	2316.5
880.2	55°	964.8	1112.0	1256.1	1383.0	1589.7	1704.1	1823.1	2011.0	2007.9
689.1	57.5°	729.9	891.2	1027.4	1148.0	1312.5	1453.5	1549.0	1719.7	1741.6
471.4	60°	540.3	664.1	811.3	946.0	1076.0	1221.7	1285.9	1453.5	1462.9
322.6	62.5°	368.1	504.3	648.4	770.6	867.7	1018.1	1076.0	1213.8	1231.1
206.7	65°	255.3	343.0	507.5	595.2	714.2	842.6	900.6	1010.2	1044.7
119.0	67.5°	169.2	244.3	396.3	476.1	593.6	681.3	754.9	844.2	881.8
75.2	70°	92.4	180.1	283.5	375.9	477.7	562.3	634.3	706.4	739.3
34.5	72.5°	62.6	120.6	197.3	297.6	385.3	468.3	532.5	585.8	587.3
20.4	75°	31.3	81.4	150.4	230.2	300.7	382.2	440.1	471.4	433.8
12.5	77.5°	18.8	59.5	122.2	184.8	244.3	308.5	341.4	358.7	297.6
9.4	80°	11.0	42.3	95.5	147.2	169.2	227.1	258.4	263.1	198.9
6.3	82.5°	7.8	31.3	75.2	108.1	103.4	159.8	194.2	187.9	126.9
4.7	85°	4.7	21.9	47.0	67.3	62.6	104.9	112.8	115.9	73.6
3.1	87.5°	3.1	12.5	25.1	36.0	29.8	45.4	45.4	54.8	36.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
8463.9
8254.0
8288.5
8188.3
8050.4
7881.3
7682.4
7444.3
7126.4
6817.8
6430.9
6086.4
5679.2
5287.6
4855.3
4517.0
4095.7
3724.5
3356.4
3000.9
2662.6
2339.9
2015.7
1732.3
1477.0
1234.2
1036.8
877.1
726.7
573.2
405.7
286.6
186.4
117.5
67.3
31.3
0.0

(END OF REPORT)