

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: P637822

Luminaire Tested: **IFLD-S-SA6C-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637822  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29301.4 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

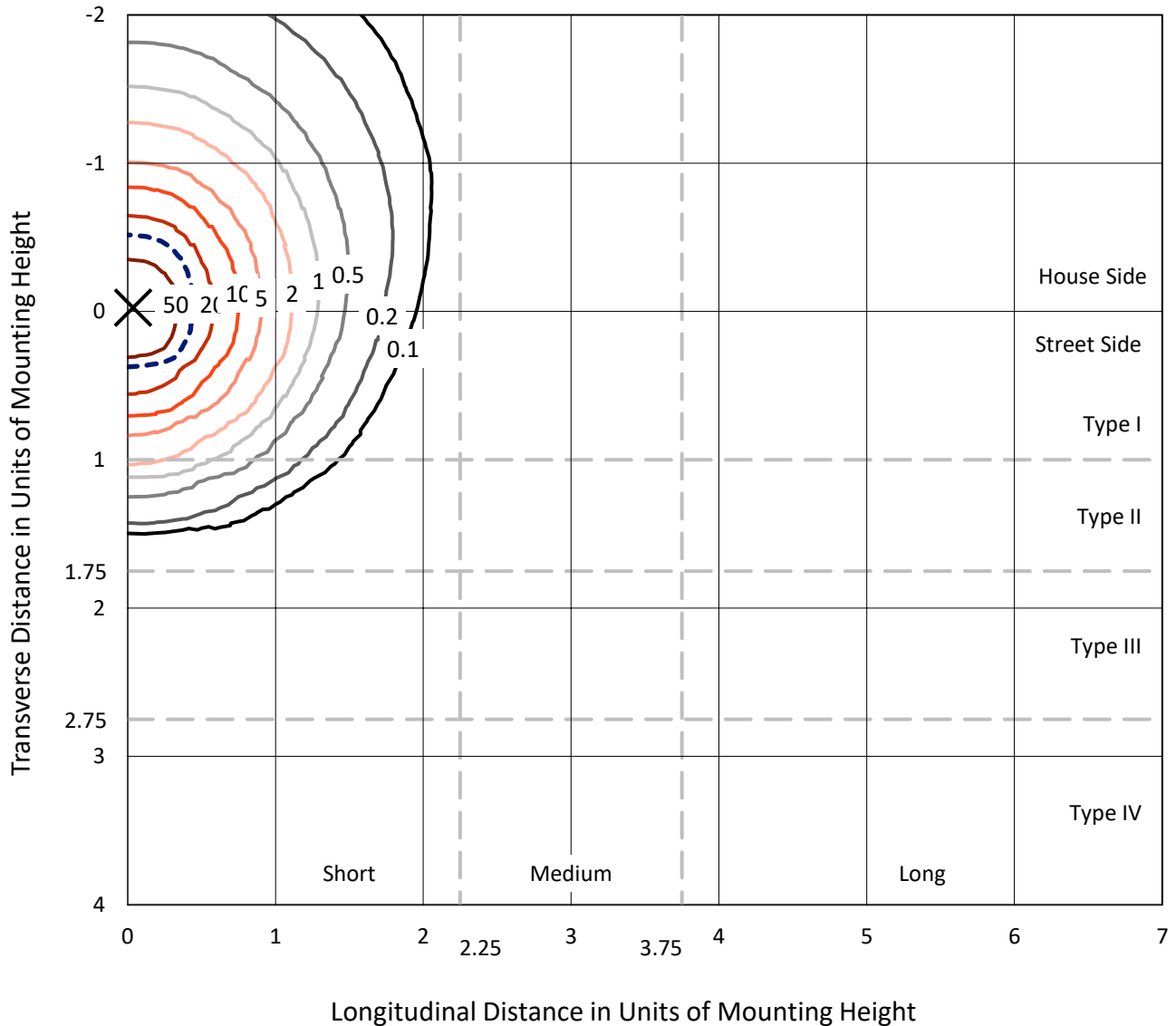
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P637822  
 CATALOG NUMBER: IFLD-S-SA6C-727-U-66-VI

### Iso-Footcandle Lines of Horizontal Illumination

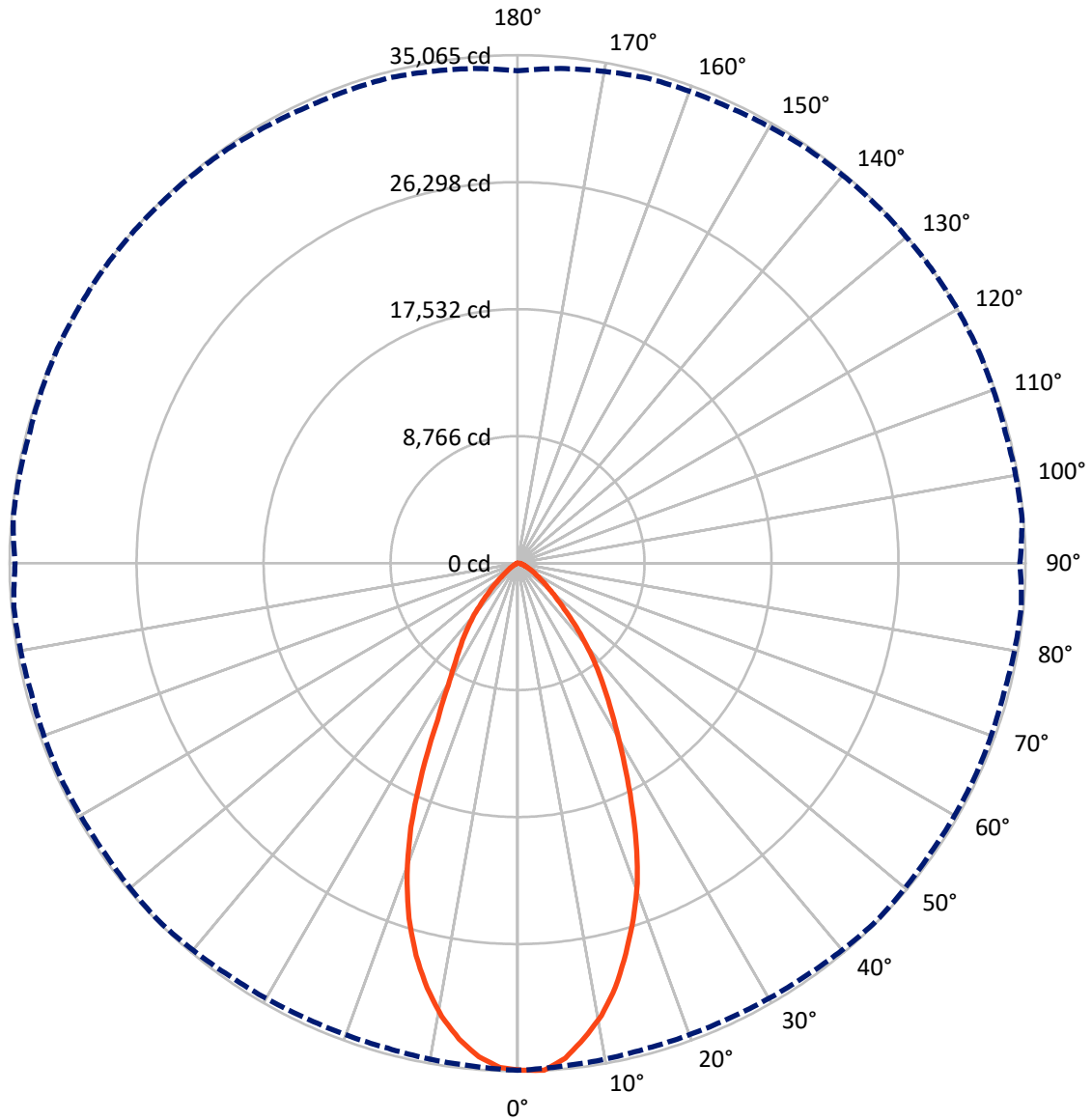
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 87.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P637822  
CATALOG NUMBER: IFLD-S-SA6C-727-U-66-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637822

CATALOG NUMBER: IFLD-S-SA6C-727-U-66-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16626.8	0.0	16626.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	12674.6	0.0	12674.6
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	29301.4	0.0	29301.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3178.9	10.8
10°-20°	7577.7	25.9
20°-30°	7717.8	26.3
30°-40°	5755.1	19.6
40°-50°	3006.6	10.3
50°-60°	1264.6	4.3
60°-70°	516.5	1.8
70°-80°	217.3	0.7
80°-90°	67.0	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°	29301.4	100.0
0°-180°	29301.4	100.0



REPORT NUMBER: P637822

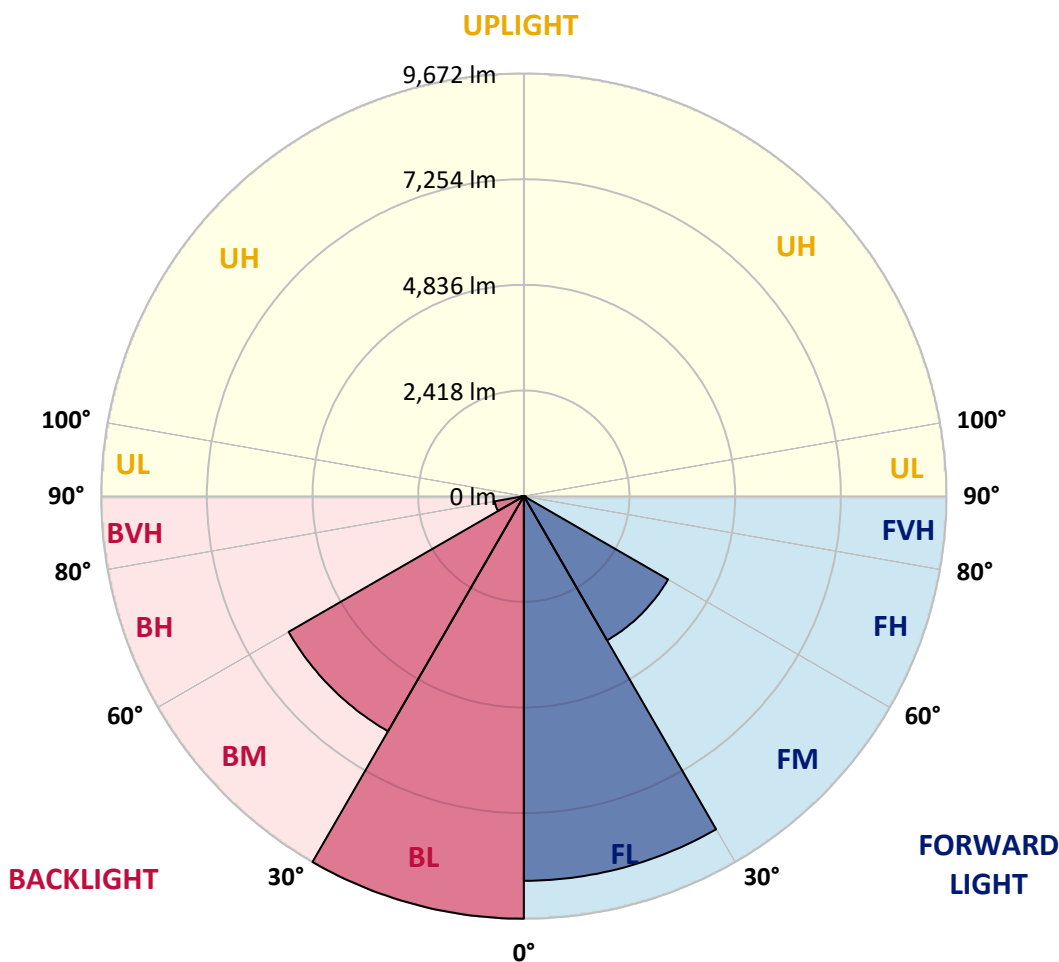
CATALOG NUMBER: IFLD-S-SA6C-727-U-66-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8802.5	30.0			
FM (30°-60°)	3810.8	13.0			
FH (60°-80°)	55.1	0.2			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	9671.8	33.0	B5		
BM (30°-60°)	6215.6	21.2	B4/8500		
BH (60°-80°)	678.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	60.7	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-G2**

Type I Short





REPORT NUMBER: P637822  
 CATALOG NUMBER: IFLD-S-SA6C-727-U-66-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1
2.5°	35011.9	34868.9	34665.6	34646.8	34752.2	34981.8	34835.0	34842.5	34752.2	34906.5
5°	34462.4	34326.9	34187.6	34003.2	34157.5	34255.4	34180.1	34097.3	33980.6	34131.1
7.5°	33423.5	33348.3	33141.2	33058.4	33152.5	33261.7	33099.8	33077.2	32915.4	33111.1
10°	31835.2	31805.0	31601.8	31552.9	31635.7	31801.3	31729.8	31714.7	31613.1	31594.3
12.5°	30186.6	30069.9	29817.7	29802.6	29926.9	30175.3	29983.3	29798.9	29855.3	29904.3
15°	25940.9	25816.7	26441.5	27423.9	27939.5	27920.7	27977.1	27755.1	27687.3	27709.9
17.5°	20622.5	20411.7	20637.5	22158.1	24608.4	26031.2	25639.8	25161.7	24905.8	24736.4
20°	17799.5	17810.8	17769.4	18160.9	19689.0	22933.5	22839.4	21917.3	21582.3	21443.0
22.5°	16083.2	16019.2	15928.9	16053.1	16463.3	18367.9	19643.9	18797.0	18680.3	18526.0
25°	14400.7	14400.7	14291.6	14415.8	14532.5	14558.8	15838.5	16184.8	15959.0	15959.0
27.5°	12944.1	12868.8	12819.9	12876.3	12722.0	11980.5	12142.4	13915.2	13760.9	13666.8
30°	11498.7	11476.2	11393.4	11468.6	10896.5	10060.9	9722.2	11743.4	11905.2	11871.4
32.5°	9492.6	9582.9	9951.8	10068.5	9089.8	8416.1	8092.4	9748.5	10395.9	10369.6
35°	6451.3	6526.6	6948.2	8340.8	7535.3	7053.6	6959.5	7753.7	8818.8	8920.5
37.5°	5137.7	5126.4	5246.9	5495.3	6056.1	5939.5	5913.1	6120.1	7192.8	7238.0
40°	4234.4	4219.3	4215.6	4012.3	3873.1	4938.3	4866.7	4742.5	5672.2	5762.5
42.5°	3413.9	3428.9	3440.2	2996.1	2792.8	3809.1	3767.7	3639.7	4448.9	4554.3
45°	2679.9	2676.1	2698.7	2232.0	2175.5	2435.3	2815.4	2713.8	3357.4	3470.3
47.5°	1388.9	1437.8	1742.7	1727.6	1754.0	1727.6	2130.4	2104.0	2525.6	2706.3
50°	933.4	948.5	974.9	978.6	1381.4	1272.2	1445.3	1637.3	1769.0	2047.6
52.5°	722.7	734.0	666.2	624.8	846.9	941.0	948.5	1132.9	1234.6	1516.9
55°	402.7	451.7	485.5	489.3	466.7	696.3	692.6	839.4	918.4	1106.6
57.5°	52.7	64.0	97.9	316.2	312.4	387.7	485.5	609.8	654.9	809.2
60°	3.8	7.5	11.3	48.9	207.0	225.8	331.2	380.2	455.4	568.4
62.5°	0.0	0.0	3.8	11.3	41.4	131.7	173.1	199.5	267.2	372.6
65°	0.0	0.0	3.8	7.5	15.1	48.9	67.8	109.2	158.1	229.6
67.5°	0.0	0.0	3.8	7.5	11.3	18.8	30.1	48.9	82.8	139.3
70°	0.0	0.0	3.8	7.5	11.3	15.1	22.6	30.1	45.2	75.3
72.5°	0.0	0.0	3.8	3.8	7.5	18.8	18.8	22.6	30.1	41.4
75°	0.0	0.0	3.8	7.5	11.3	18.8	18.8	18.8	22.6	26.3
77.5°	0.0	0.0	3.8	7.5	11.3	18.8	15.1	18.8	18.8	18.8
80°	0.0	0.0	3.8	7.5	11.3	18.8	22.6	18.8	15.1	15.1
82.5°	0.0	0.0	3.8	11.3	11.3	26.3	26.3	26.3	11.3	11.3
85°	0.0	0.0	7.5	11.3	18.8	30.1	30.1	22.6	11.3	7.5
87.5°	0.0	0.0	3.8	7.5	7.5	15.1	22.6	18.8	7.5	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637822

CATALOG NUMBER: IFLD-S-SA6C-727-U-66-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
35008.1	0°	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1	35008.1
34680.7	2.5°	34959.2	34865.1	35042.0	35064.6	34989.3	34895.2	34676.9	34658.1	34277.9
33912.8	5°	34296.8	34142.4	34255.4	34330.6	34304.3	34202.7	34112.3	34029.5	33687.0
32667.0	7.5°	33062.2	33005.7	33058.4	33114.9	33224.0	33114.9	33077.2	32990.7	32651.9
31439.9	10°	31692.1	31586.7	31786.2	31759.9	31729.8	31699.7	31541.6	31556.6	31157.7
29768.8	12.5°	30009.7	29832.8	30024.7	30047.3	30024.7	29919.3	29742.4	29817.7	29452.6
27510.4	15°	27747.6	27728.7	27868.0	27958.3	28022.3	27909.4	27849.2	27886.8	27668.5
24604.7	17.5°	24969.8	25214.4	25669.9	25824.2	25828.0	25944.6	25910.8	25865.6	25703.7
21386.5	20°	21702.7	22173.2	22873.3	23592.2	23799.2	23701.3	23656.2	23739.0	23498.1
18364.1	22.5°	18687.8	19090.6	19903.6	20953.7	21559.7	21619.9	21608.6	21537.1	21443.0
15943.9	25°	16128.4	16485.9	17265.1	18224.9	19387.9	19561.0	19568.6	19546.0	19463.2
13749.6	27.5°	13967.9	14400.7	14829.8	15688.0	16926.3	17641.5	17551.1	17524.8	17494.7
11897.7	30°	12010.6	12556.4	12959.1	13493.6	14604.0	15571.3	15665.4	15620.2	15548.7
10365.8	32.5°	10459.9	10783.6	11295.5	11656.8	12454.8	13550.1	13911.4	13877.5	13813.6
8984.5	35°	9112.4	9240.4	9643.1	10045.9	10576.6	11638.0	12172.5	12097.2	12085.9
7320.8	37.5°	7505.2	7934.3	8156.4	8562.9	8935.5	9759.8	10497.5	10463.7	10467.4
5886.8	40°	6059.9	6308.3	6748.7	7091.2	7433.7	8035.9	8856.5	8879.1	8871.5
4558.1	42.5°	4652.2	4893.1	5356.0	5728.7	6033.5	6406.2	7189.1	7215.4	7249.3
3549.4	45°	3632.2	3786.5	4125.2	4512.9	4836.6	5062.5	5657.2	5826.5	5830.3
2751.4	47.5°	2819.2	2996.1	3237.0	3609.6	3925.8	4087.6	4520.5	4750.1	4738.8
2111.6	50°	2213.2	2375.0	2570.8	2864.3	3206.9	3334.8	3654.8	3880.6	3869.3
1592.1	52.5°	1693.8	1900.8	2073.9	2299.7	2634.7	2743.9	2973.5	3233.2	3195.6
1166.8	55°	1283.5	1494.3	1656.1	1844.3	2149.2	2288.5	2446.5	2653.6	2661.1
903.3	57.5°	967.3	1185.6	1332.4	1524.4	1754.0	1908.3	2028.7	2250.8	2247.1
617.3	60°	692.6	880.8	1057.7	1257.1	1434.1	1611.0	1693.8	1904.5	1912.1
436.6	62.5°	500.6	677.5	846.9	1020.0	1178.1	1351.2	1426.5	1592.1	1614.7
286.1	65°	350.0	474.3	670.0	801.7	978.6	1106.6	1204.5	1347.5	1373.8
169.4	67.5°	225.8	342.5	530.7	647.4	809.2	918.4	1020.0	1132.9	1166.8
109.2	70°	135.5	259.7	395.2	519.4	666.2	764.1	861.9	959.8	978.6
52.7	72.5°	86.6	180.7	286.1	421.6	534.5	639.9	726.4	797.9	741.5
33.9	75°	48.9	124.2	225.8	331.2	432.8	534.5	606.0	643.6	515.7
22.6	77.5°	30.1	90.3	184.4	267.2	335.0	429.1	474.3	496.8	368.9
15.1	80°	18.8	67.8	154.3	218.3	218.3	316.2	368.9	387.7	267.2
11.3	82.5°	15.1	48.9	120.4	165.6	146.8	237.1	289.8	293.6	188.2
7.5	85°	11.3	37.6	75.3	109.2	101.6	165.6	169.4	188.2	124.2
7.5	87.5°	7.5	22.6	45.2	64.0	56.5	79.0	90.3	101.6	67.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
35008.1  
33980.6  
33412.2  
32580.4  
31022.2  
29347.2  
27405.0  
25462.9  
23325.0  
21262.3  
19184.7  
17317.8  
15458.4  
13644.2  
11961.7  
10347.0  
8739.8  
7136.4  
5732.4  
4697.4  
3869.3  
3199.3  
2661.1  
2239.5  
1893.2  
1607.2  
1366.3  
1163.0  
963.6  
688.8  
489.3  
346.3  
248.4  
173.1  
112.9  
60.2  
0.0

(END OF REPORT)