

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: P637340

Luminaire Tested: **IFLD-L-SA7D-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637340  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42840.6 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

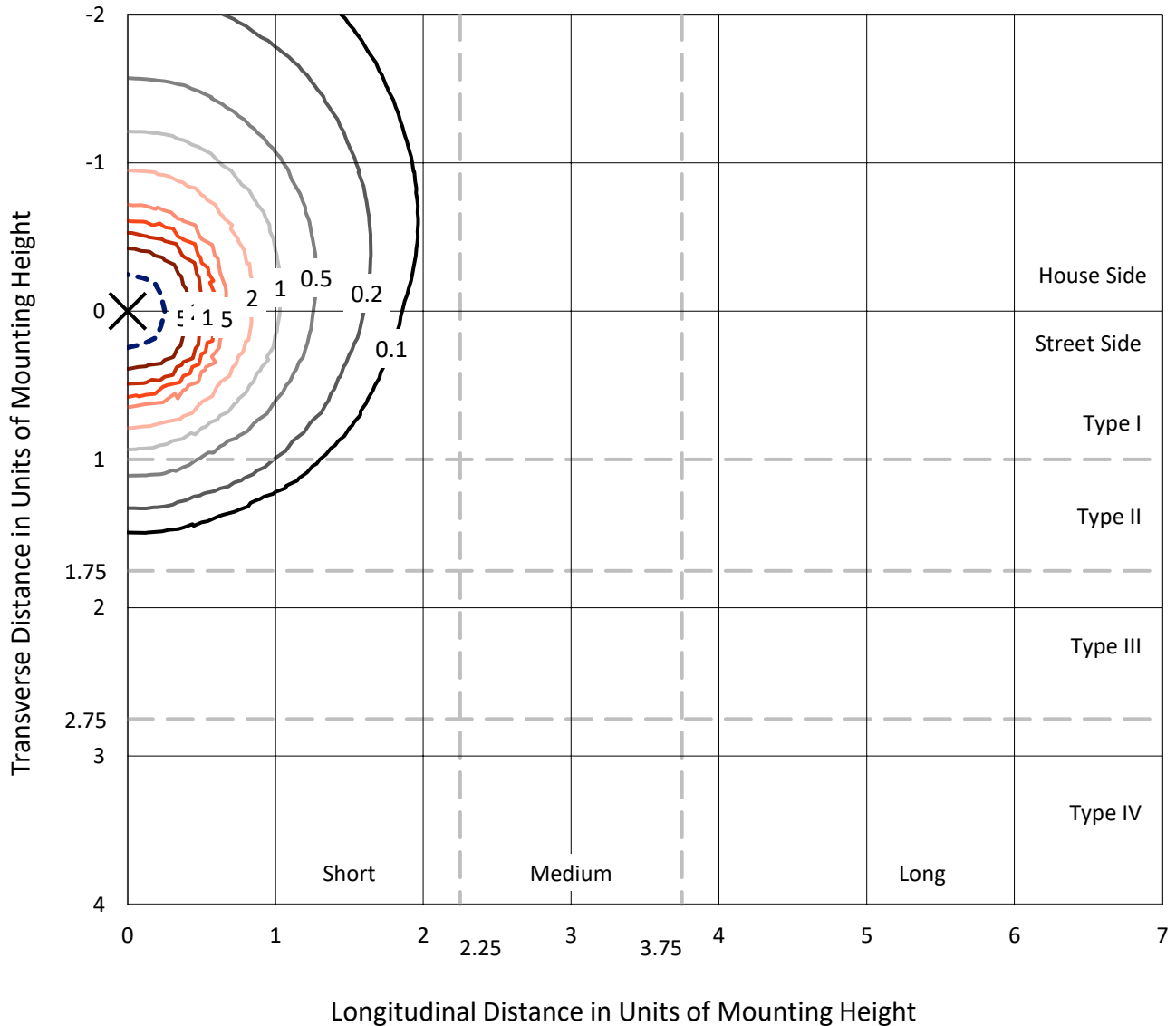
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

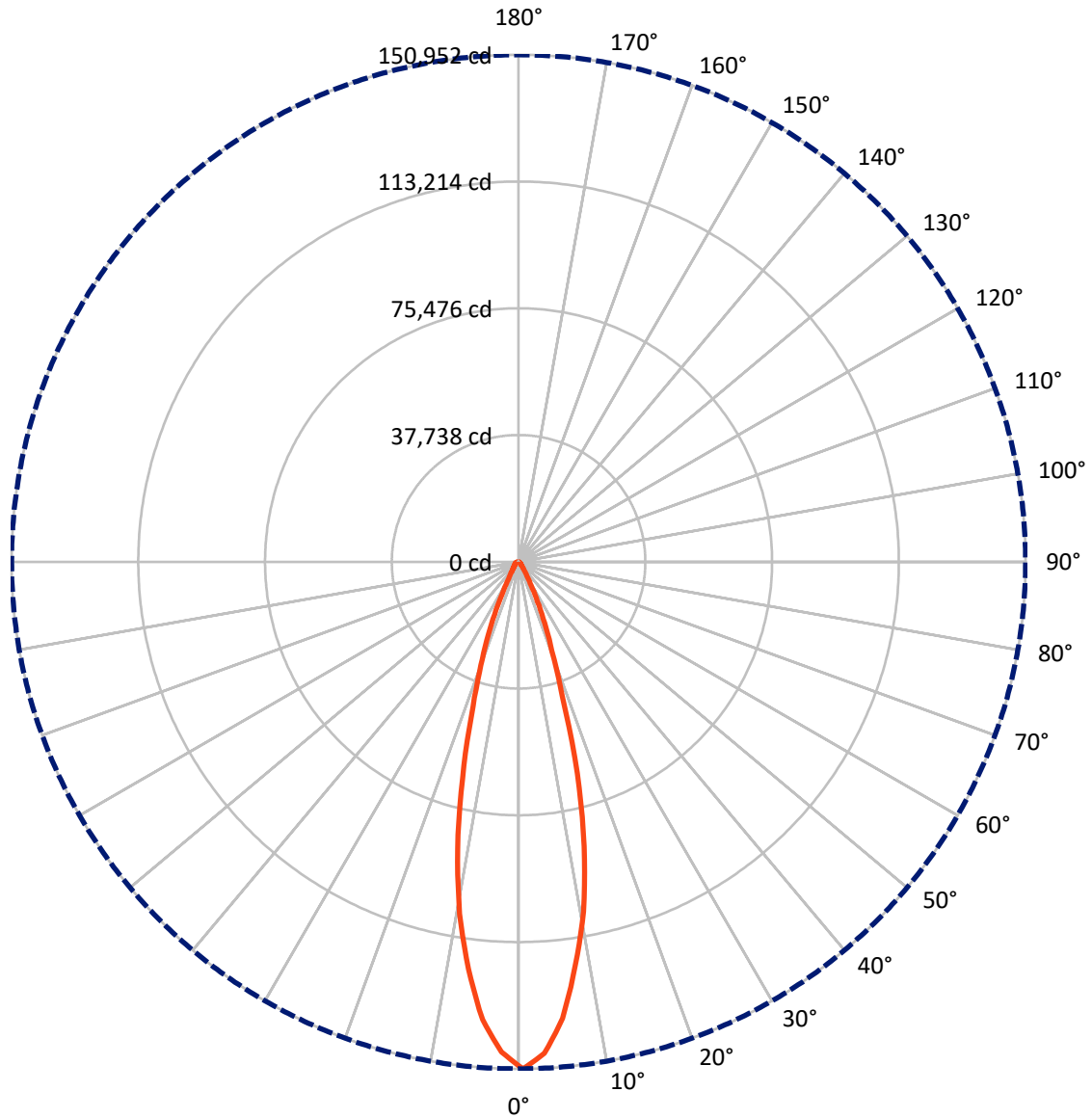
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 377.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22588.5	0.0	22588.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	20252.1	0.0	20252.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	42840.6	0.0	42840.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12183.2	28.4
10°-20°	18451.3	43.1
20°-30°	7786.5	18.2
30°-40°	2030.8	4.7
40°-50°	1027.2	2.4
50°-60°	671.4	1.6
60°-70°	402.2	0.9
70°-80°	211.6	0.5
80°-90°	76.4	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°	42840.6	100.0
0°-180°	42840.6	100.0

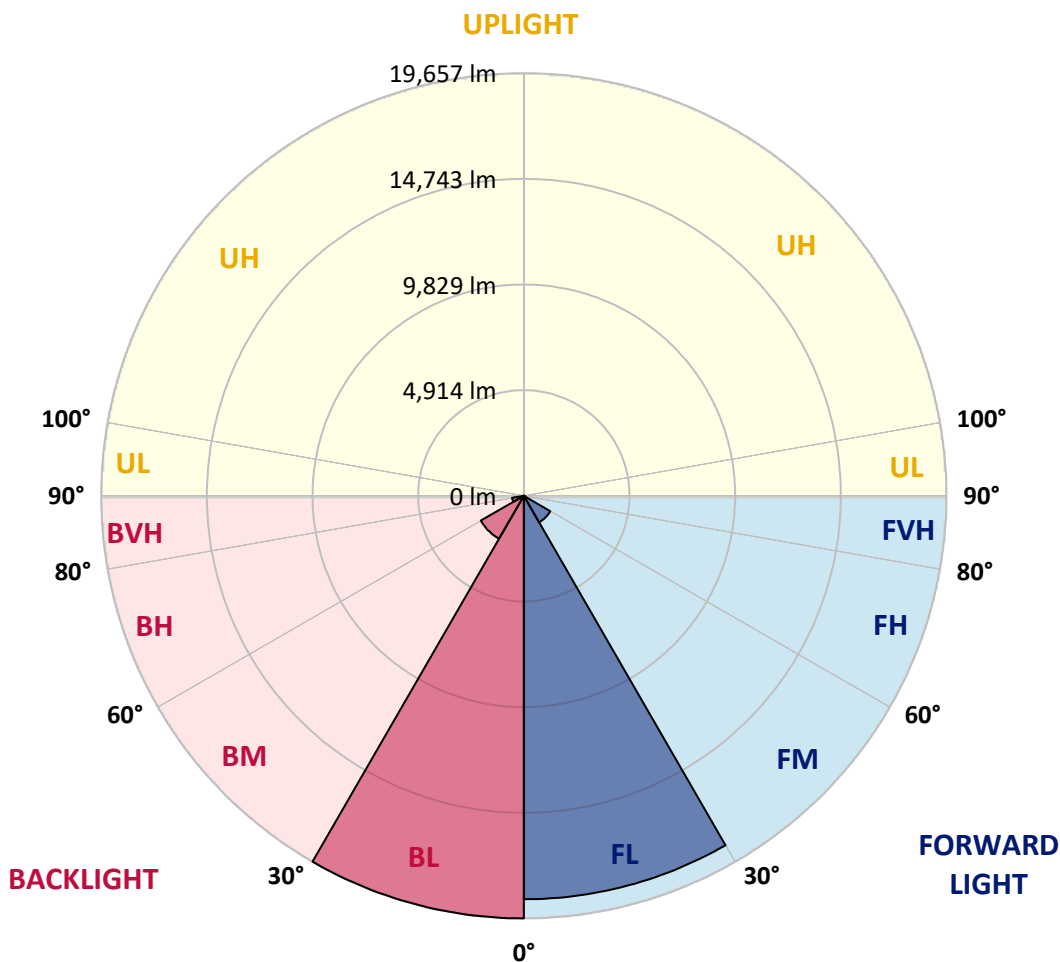


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18763.9	43.8			
FM (30°-60°)	1421.0	3.3			
FH (60°-80°)	57.9	0.1			G0/660
FVH (80°-90°)	9.3	0.0			G0/10
BL (0°-30°)	19657.1	45.9	B5		
BM (30°-60°)	2308.3	5.4	B2/2500		
BH (60°-80°)	555.9	1.3	B2/1000		G0/660
BVH (80°-90°)	67.1	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	150951.8	150951.8	150951.8	150951.8	150951.8	150951.8	150951.8	150951.8	150951.8	150951.8
2.5°	146554.5	146636.3	146333.2	146987.5	146477.5	147843.9	147165.5	148223.9	147867.9	148459.7
5°	136547.5	136412.8	136326.2	137341.3	137047.9	138515.2	137577.1	137269.2	138221.8	138048.6
7.5°	121436.0	121792.0	121589.9	121854.5	122003.7	123677.9	124207.1	123793.4	123807.8	124048.4
10°	105944.4	105419.9	104674.2	105169.8	106218.6	106949.9	106656.4	107262.6	107127.9	107700.4
12.5°	86882.9	87296.7	86878.1	86435.5	88268.5	88066.5	88576.4	88908.4	88076.1	89928.3
15°	65444.8	65661.3	66171.3	66137.6	67547.3	67831.1	67763.8	68115.0	67465.5	67773.4
17.5°	42043.9	42775.1	44146.3	46465.2	49072.8	49375.9	49298.9	49010.3	48697.5	48351.2
20°	28240.9	28163.9	28659.5	29337.8	34735.9	36164.7	36121.4	35217.0	33908.4	33658.2
22.5°	19783.1	19927.4	19860.1	20533.6	21649.8	25590.0	25104.1	24185.2	23757.0	23478.0
25°	13013.9	12961.0	13297.8	13499.8	14457.2	14938.3	16641.5	16299.9	15640.8	15712.9
27.5°	7933.4	8000.8	8125.9	8299.1	8977.4	8823.5	9795.3	9925.2	9713.5	9487.4
30°	4868.8	4916.9	5017.9	5143.0	5378.8	5210.4	5479.8	5946.5	5869.5	5710.7
32.5°	3305.2	3310.0	3382.2	3430.3	3401.4	3242.7	3329.3	3771.9	3781.5	3767.1
35°	2376.7	2376.7	2444.0	2482.5	2400.7	2270.8	2285.3	2559.5	2679.8	2703.8
37.5°	1640.6	1645.4	1760.8	1876.3	1784.9	1751.2	1693.5	1876.3	2068.8	2097.6
40°	1246.1	1241.3	1299.0	1385.6	1395.2	1332.7	1351.9	1467.4	1664.6	1688.7
42.5°	1010.3	1015.1	1044.0	1034.4	1039.2	1121.0	1149.8	1202.8	1385.6	1428.9
45°	851.6	856.4	870.8	822.7	803.4	928.5	967.0	995.9	1149.8	1202.8
47.5°	702.4	712.0	726.5	673.5	663.9	745.7	813.1	841.9	976.6	1034.4
50°	505.2	514.8	567.7	538.8	567.7	586.9	678.4	721.7	813.1	890.0
52.5°	365.6	375.3	389.7	394.5	466.7	476.3	543.6	611.0	654.3	740.9
55°	288.7	298.3	288.7	279.0	341.6	394.5	418.6	490.7	524.4	625.4
57.5°	163.6	173.2	187.6	216.5	226.1	303.1	327.2	389.7	418.6	514.8
60°	28.9	33.7	52.9	129.9	158.8	192.4	245.4	298.3	336.8	404.1
62.5°	4.8	4.8	9.6	28.9	91.4	134.7	178.0	211.7	245.4	307.9
65°	0.0	0.0	4.8	9.6	24.1	77.0	96.2	125.1	168.4	221.3
67.5°	0.0	0.0	4.8	9.6	14.4	28.9	43.3	77.0	96.2	149.1
70°	0.0	0.0	4.8	9.6	14.4	19.2	24.1	33.7	57.7	91.4
72.5°	0.0	0.0	4.8	9.6	14.4	19.2	24.1	28.9	28.9	57.7
75°	0.0	0.0	4.8	9.6	14.4	24.1	28.9	28.9	24.1	24.1
77.5°	0.0	0.0	4.8	9.6	19.2	28.9	33.7	28.9	19.2	19.2
80°	0.0	0.0	9.6	14.4	24.1	33.7	43.3	33.7	19.2	9.6
82.5°	0.0	0.0	9.6	19.2	24.1	38.5	52.9	43.3	19.2	9.6
85°	0.0	0.0	4.8	14.4	28.9	38.5	52.9	38.5	19.2	4.8
87.5°	0.0	0.0	4.8	4.8	9.6	14.4	28.9	24.1	9.6	4.8
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°
<i>150951.8</i>	0°	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>	<i>150951.8</i>
147338.7	2.5°	148185.5	148955.2	149114.0	148902.3	149210.2	148656.9	148233.6	147136.6	146477.5
137995.6	5°	138885.7	138770.2	139573.7	139838.3	139804.6	139381.2	138789.5	138125.5	137480.9
123581.7	7.5°	124351.5	124500.6	125231.9	125698.6	125462.8	124933.6	124524.7	124024.3	123591.3
107907.3	10°	108893.5	107868.8	108778.1	108778.1	109408.3	107912.1	108051.6	106791.1	106848.8
89894.7	12.5°	90202.6	90573.0	90722.2	91150.3	90414.3	89620.4	88648.6	88456.2	87854.8
67186.5	15°	68153.5	69211.9	68302.6	69856.6	69106.1	68278.6	68129.4	66638.0	67109.5
48731.2	17.5°	48490.7	49659.8	50025.4	50915.4	50232.3	49741.5	49120.9	48668.7	48635.0
34115.2	20°	34384.6	35558.5	35828.0	36896.0	36819.0	36665.1	36140.7	35568.2	34947.5
23223.0	22.5°	23574.2	24531.6	25426.5	26865.0	26840.9	26388.7	26335.7	25527.5	25541.9
15688.9	25°	15852.4	16550.0	16761.7	18233.9	18397.5	18349.4	18075.2	17324.6	17608.5
9583.6	27.5°	9593.3	10204.3	10921.1	11440.7	11931.4	11854.5	11580.2	11161.7	10978.8
5758.8	30°	5912.8	6187.0	6451.6	7077.1	7370.5	7524.5	7394.6	7004.9	7033.8
3791.1	32.5°	3872.9	4103.8	4296.3	4690.8	4844.7	5128.6	5075.7	4993.9	4897.7
2727.9	35°	2824.1	2992.5	3122.4	3305.2	3502.5	3743.0	3781.5	3747.8	3709.3
2107.2	37.5°	2155.4	2328.6	2477.7	2554.7	2708.6	2896.3	3002.1	2997.3	2968.4
1717.5	40°	1751.2	1881.1	2015.8	2116.9	2222.7	2362.2	2492.1	2506.6	2506.6
1443.3	42.5°	1462.6	1573.2	1707.9	1813.8	1890.7	2020.6	2155.4	2165.0	2155.4
1222.0	45°	1250.9	1347.1	1477.0	1602.1	1664.6	1760.8	1890.7	1919.6	1900.4
1048.8	47.5°	1087.3	1173.9	1284.6	1419.3	1486.6	1573.2	1693.5	1727.2	1722.4
904.5	50°	933.3	1034.4	1145.0	1255.7	1342.3	1424.1	1539.5	1578.0	1563.6
769.8	52.5°	822.7	914.1	1010.3	1130.6	1231.6	1303.8	1395.2	1462.6	1443.3
649.5	55°	688.0	798.6	899.7	1000.7	1125.8	1202.8	1289.4	1371.2	1351.9
548.5	57.5°	596.6	688.0	803.4	894.9	1019.9	1111.4	1198.0	1284.6	1279.7
447.4	60°	500.4	596.6	707.2	803.4	918.9	1019.9	1106.5	1202.8	1212.4
336.8	62.5°	394.5	510.0	606.2	716.8	832.3	943.0	1019.9	1116.2	1130.6
255.0	65°	298.3	418.6	524.4	630.2	745.7	866.0	933.3	1015.1	1029.6
187.6	67.5°	221.3	322.3	447.4	543.6	663.9	779.4	841.9	909.3	933.3
115.5	70°	168.4	245.4	375.3	466.7	591.8	683.2	750.5	808.3	827.5
77.0	72.5°	105.8	192.4	303.1	399.3	510.0	591.8	639.9	673.5	702.4
43.3	75°	72.2	149.1	245.4	341.6	423.4	485.9	529.2	558.1	582.1
19.2	77.5°	43.3	115.5	202.1	283.9	336.8	384.9	428.2	447.4	461.9
14.4	80°	24.1	86.6	168.4	230.9	264.6	298.3	332.0	356.0	365.6
9.6	82.5°	14.4	67.4	134.7	178.0	192.4	226.1	259.8	274.2	274.2
4.8	85°	9.6	48.1	91.4	129.9	139.5	163.6	173.2	182.8	192.4
4.8	87.5°	9.6	28.9	57.7	72.2	77.0	86.6	91.4	101.0	110.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
150951.8  
145991.6  
136759.2  
122123.9  
106285.9  
87306.3  
66638.0  
47740.1  
34678.1  
25262.9  
17161.1  
10820.1  
6908.7  
4864.0  
3694.9  
2954.0  
2477.7  
2145.7  
1900.4  
1712.7  
1554.0  
1438.5  
1361.5  
1284.6  
1217.2  
1140.2  
1044.0  
943.0  
837.1  
697.6  
577.3  
457.1  
356.0  
269.4  
187.6  
105.8  
0.0

(END OF REPORT)