

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: P637426

Luminaire Tested: **IFLD-L-SA7C-750-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637426  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43735.4 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

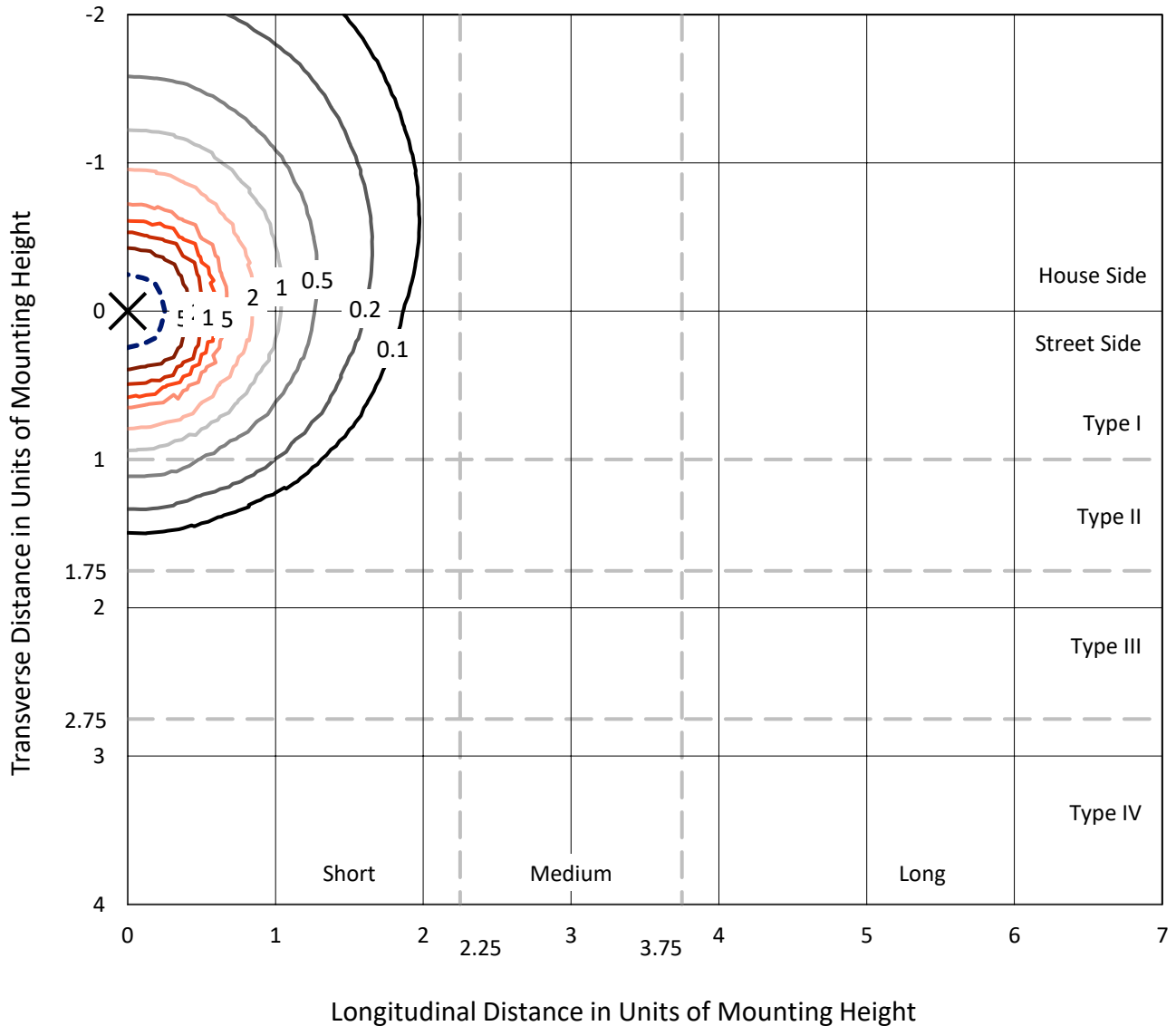
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

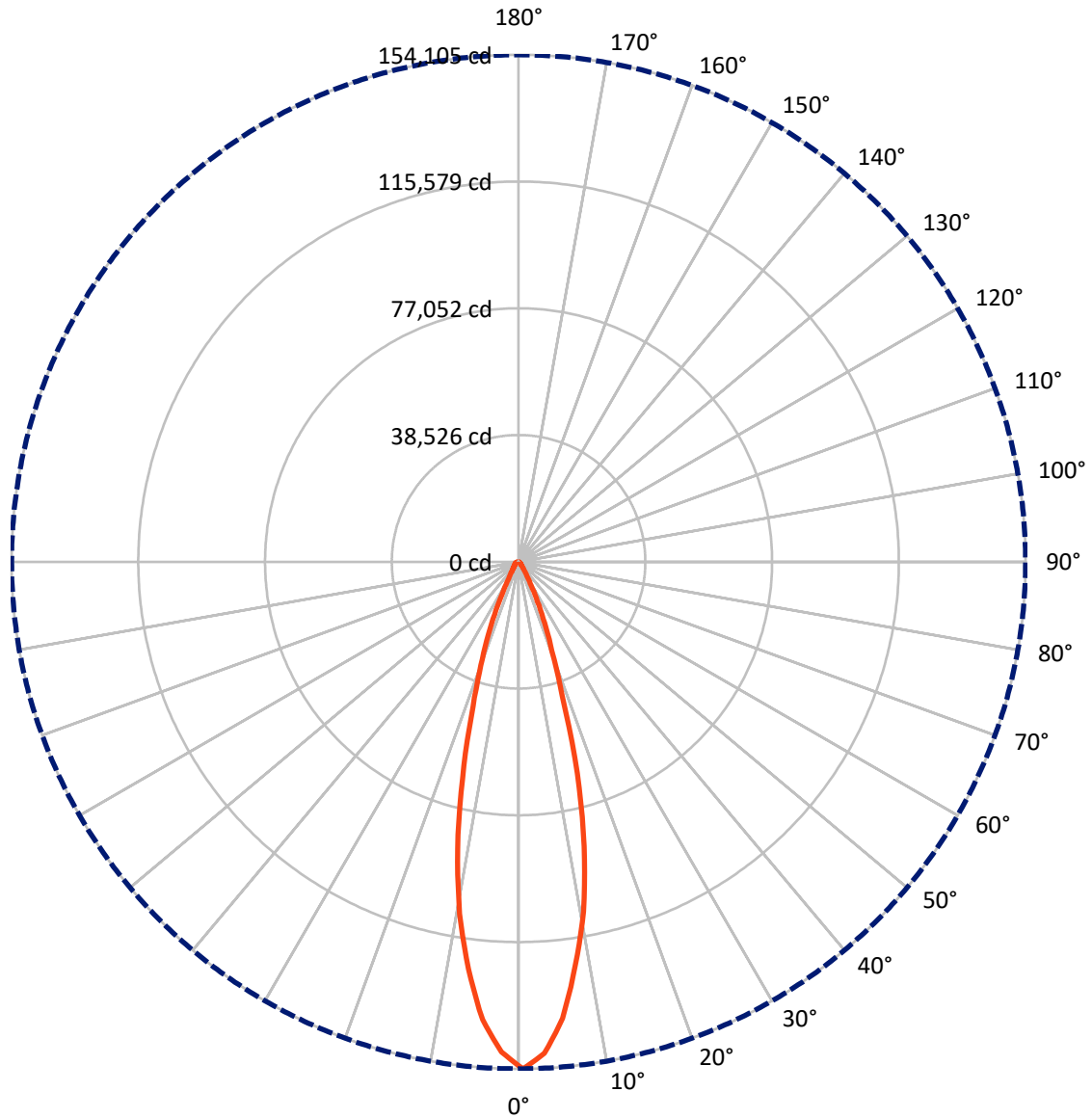
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 385.3 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	23060.3	0.0	23060.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	20675.2	0.0	20675.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	43735.4	0.0	43735.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12437.6	28.4
10°-20°	18836.7	43.1
20°-30°	7949.2	18.2
30°-40°	2073.2	4.7
40°-50°	1048.6	2.4
50°-60°	685.4	1.6
60°-70°	410.6	0.9
70°-80°	216.0	0.5
80°-90°	78.0	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°	43735.4	100.0
0°-180°	43735.4	100.0

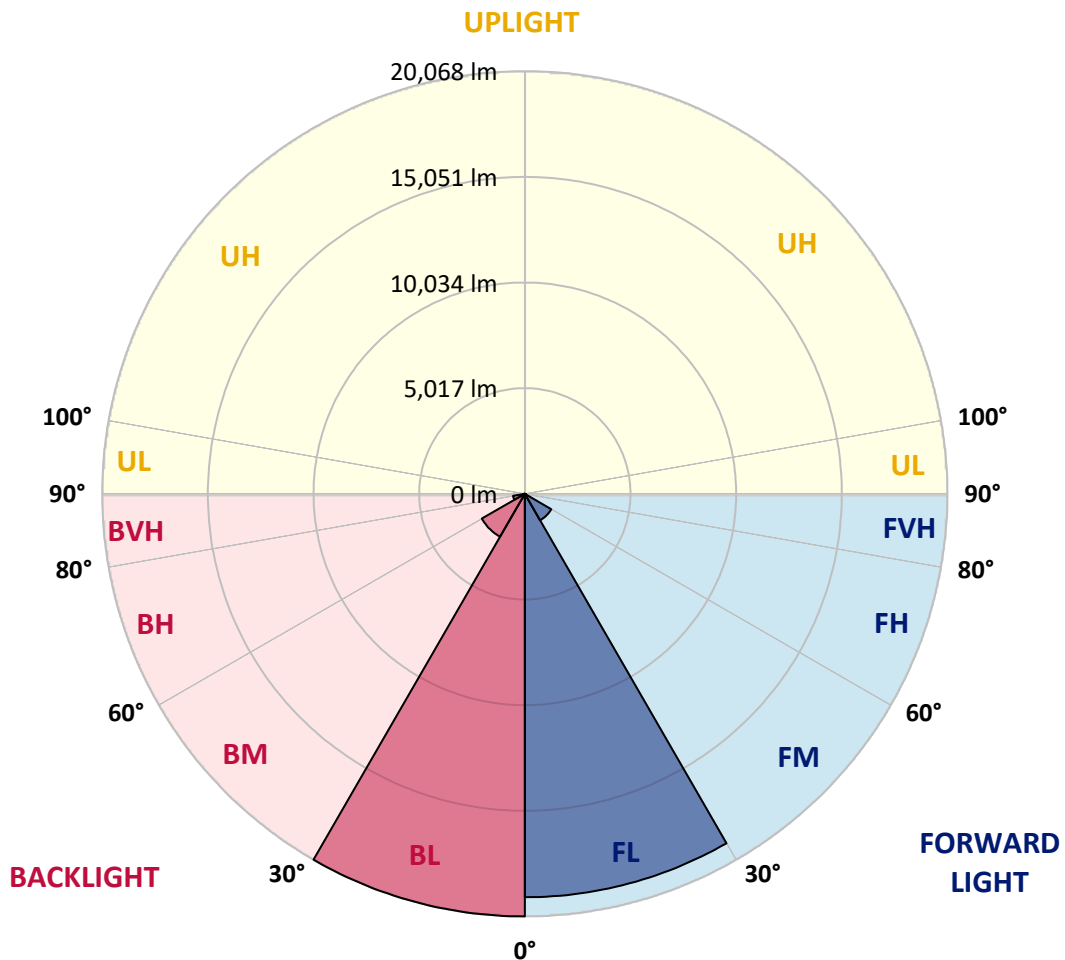


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19155.8	43.8			
FM (30°-60°)	1450.7	3.3			
FH (60°-80°)	59.1	0.1			G0/660
FVH (80°-90°)	9.5	0.0			G0/10
BL (0°-30°)	20067.7	45.9	B5		
BM (30°-60°)	2356.5	5.4	B2/2500		
BH (60°-80°)	567.5	1.3	B2/1000		G0/660
BVH (80°-90°)	68.5	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9
2.5°	149615.7	149699.2	149389.8	150057.8	149537.2	150932.0	150239.5	151320.1	150956.6	151560.7
5°	139399.7	139262.2	139173.8	140210.1	139910.5	141408.5	140450.8	140136.5	141108.9	140932.1
7.5°	123972.5	124336.0	124129.7	124399.8	124552.1	126261.3	126801.6	126379.2	126393.9	126639.5
10°	108157.3	107622.0	106860.7	107366.6	108437.3	109183.8	108884.2	109503.1	109365.6	109950.0
12.5°	88697.7	89120.1	88692.8	88241.0	90112.3	89906.0	90426.6	90765.5	89915.8	91806.8
15°	66811.9	67032.9	67553.5	67519.1	68958.2	69248.0	69179.2	69537.8	68874.7	69189.1
17.5°	42922.1	43668.6	45068.4	47435.8	50097.8	50407.3	50328.7	50034.0	49714.7	49361.1
20°	28830.8	28752.2	29258.1	29950.7	35461.4	36920.1	36875.9	35952.6	34616.6	34361.2
22.5°	20196.3	20343.7	20274.9	20962.5	22102.0	26124.6	25628.5	24690.4	24253.3	23968.4
25°	13285.8	13231.7	13575.5	13781.8	14759.2	15250.4	16989.1	16640.3	15967.5	16041.1
27.5°	8099.2	8167.9	8295.6	8472.4	9165.0	9007.8	9999.9	10132.5	9916.4	9685.6
30°	4970.5	5019.6	5122.8	5250.5	5491.1	5319.2	5594.3	6070.7	5992.1	5830.0
32.5°	3374.2	3379.1	3452.8	3501.9	3472.5	3310.4	3398.8	3850.7	3860.5	3845.7
35°	2426.3	2426.3	2495.1	2534.4	2450.9	2318.3	2333.0	2612.9	2735.7	2760.3
37.5°	1674.8	1679.8	1797.6	1915.5	1822.2	1787.8	1728.9	1915.5	2112.0	2141.4
40°	1272.1	1267.2	1326.1	1414.5	1424.4	1360.5	1380.1	1498.0	1699.4	1724.0
42.5°	1031.4	1036.3	1065.8	1056.0	1060.9	1144.4	1173.9	1227.9	1414.5	1458.7
45°	869.3	874.3	889.0	839.9	820.2	947.9	987.2	1016.7	1173.9	1227.9
47.5°	717.1	726.9	741.6	687.6	677.8	761.3	830.1	859.5	997.0	1056.0
50°	515.7	525.5	579.6	550.1	579.6	599.2	692.5	736.7	830.1	908.6
52.5°	373.3	383.1	397.8	402.7	476.4	486.2	555.0	623.8	668.0	756.4
55°	294.7	304.5	294.7	284.9	348.7	402.7	427.3	501.0	535.4	638.5
57.5°	167.0	176.8	191.6	221.0	230.8	309.4	334.0	397.8	427.3	525.5
60°	29.5	34.4	54.0	132.6	162.1	196.5	250.5	304.5	343.8	412.6
62.5°	4.9	4.9	9.8	29.5	93.3	137.5	181.7	216.1	250.5	314.3
65°	0.0	0.0	4.9	9.8	24.6	78.6	98.2	127.7	171.9	225.9
67.5°	0.0	0.0	4.9	9.8	14.7	29.5	44.2	78.6	98.2	152.3
70°	0.0	0.0	4.9	9.8	14.7	19.6	24.6	34.4	58.9	93.3
72.5°	0.0	0.0	4.9	9.8	14.7	19.6	24.6	29.5	29.5	58.9
75°	0.0	0.0	4.9	9.8	14.7	24.6	29.5	29.5	24.6	24.6
77.5°	0.0	0.0	4.9	9.8	19.6	29.5	34.4	29.5	19.6	19.6
80°	0.0	0.0	9.8	14.7	24.6	34.4	44.2	34.4	19.6	9.8
82.5°	0.0	0.0	9.8	19.6	24.6	39.3	54.0	44.2	19.6	9.8
85°	0.0	0.0	4.9	14.7	29.5	39.3	54.0	39.3	19.6	4.9
87.5°	0.0	0.0	4.9	4.9	9.8	14.7	29.5	24.6	9.8	4.9
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°
154104.9	0°	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9	154104.9
150416.3	2.5°	151280.8	152066.6	152228.7	152012.6	152326.9	151762.1	151329.9	150210.0	149537.2
140878.1	5°	141786.7	141668.9	142489.1	142759.2	142724.8	142292.6	141688.5	141010.7	140352.6
126163.1	7.5°	126948.9	127101.2	127847.7	128324.2	128083.5	127543.2	127125.7	126614.9	126172.9
110161.2	10°	111168.1	110121.9	111050.2	111050.2	111693.6	110166.1	110308.6	109021.8	109080.7
91772.4	12.5°	92086.7	92464.9	92617.2	93054.3	92302.8	91492.4	90500.3	90303.8	89689.9
68589.8	15°	69577.1	70657.6	69729.3	71315.8	70549.6	69704.8	69552.5	68029.9	68511.3
49749.1	17.5°	49503.5	50697.1	51070.3	51979.0	51281.5	50780.6	50147.0	49685.3	49650.9
34827.8	20°	35102.9	36301.3	36576.3	37666.7	37588.1	37431.0	36895.6	36311.1	35677.5
23708.1	22.5°	24066.6	25044.0	25957.6	27426.1	27401.6	26939.9	26885.8	26060.7	26075.4
16016.6	25°	16183.6	16895.7	17111.9	18614.8	18781.8	18732.7	18452.7	17686.5	17976.3
9783.8	27.5°	9793.6	10417.4	11149.2	11679.7	12180.7	12102.1	11822.1	11394.8	11208.2
5879.1	30°	6036.3	6316.3	6586.4	7224.9	7524.5	7681.7	7549.1	7151.2	7180.7
3870.3	32.5°	3953.8	4189.6	4386.0	4788.8	4945.9	5235.7	5181.7	5098.2	5000.0
2784.9	35°	2883.1	3055.0	3187.6	3374.2	3575.6	3821.2	3860.5	3826.1	3786.8
2151.3	37.5°	2200.4	2377.2	2529.5	2608.0	2765.2	2956.8	3064.8	3059.9	3030.4
1753.4	40°	1787.8	1920.4	2057.9	2161.1	2269.1	2411.6	2544.2	2558.9	2558.9
1473.5	42.5°	1493.1	1606.1	1743.6	1851.7	1930.2	2062.9	2200.4	2210.2	2200.4
1247.5	45°	1277.0	1375.2	1507.8	1635.5	1699.4	1797.6	1930.2	1959.7	1940.1
1070.7	47.5°	1110.0	1198.4	1311.4	1448.9	1517.7	1606.1	1728.9	1763.2	1758.3
923.4	50°	952.8	1056.0	1168.9	1281.9	1370.3	1453.8	1571.7	1611.0	1596.3
785.8	52.5°	839.9	933.2	1031.4	1154.2	1257.4	1331.0	1424.4	1493.1	1473.5
663.1	55°	702.4	815.3	918.5	1021.6	1149.3	1227.9	1316.3	1399.8	1380.1
559.9	57.5°	609.0	702.4	820.2	913.5	1041.2	1134.6	1223.0	1311.4	1306.5
456.8	60°	510.8	609.0	722.0	820.2	938.1	1041.2	1129.7	1227.9	1237.7
343.8	62.5°	402.7	520.6	618.9	731.8	849.7	962.7	1041.2	1139.5	1154.2
260.3	65°	304.5	427.3	535.4	643.4	761.3	884.1	952.8	1036.3	1051.1
191.6	67.5°	225.9	329.1	456.8	555.0	677.8	795.7	859.5	928.3	952.8
117.9	70°	171.9	250.5	383.1	476.4	604.1	697.4	766.2	825.1	844.8
78.6	72.5°	108.1	196.5	309.4	407.7	520.6	604.1	653.2	687.6	717.1
44.2	75°	73.7	152.3	250.5	348.7	432.2	496.1	540.3	569.7	594.3
19.6	77.5°	44.2	117.9	206.3	289.8	343.8	392.9	437.1	456.8	471.5
14.7	80°	24.6	88.4	171.9	235.8	270.1	304.5	338.9	363.5	373.3
9.8	82.5°	14.7	68.8	137.5	181.7	196.5	230.8	265.2	280.0	280.0
4.9	85°	9.8	49.1	93.3	132.6	142.4	167.0	176.8	186.6	196.5
4.9	87.5°	9.8	29.5	58.9	73.7	78.6	88.4	93.3	103.1	113.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
154104.9  
149041.1  
139615.8  
124674.9  
108506.0  
89130.0  
68029.9  
48737.3  
35402.5  
25790.6  
17519.5  
11046.1  
7053.0  
4965.6  
3772.1  
3015.7  
2529.5  
2190.6  
1940.1  
1748.5  
1586.4  
1468.6  
1390.0  
1311.4  
1242.6  
1164.0  
1065.8  
962.7  
854.6  
712.2  
589.4  
466.6  
363.5  
275.0  
191.6  
108.1  
0.0

(END OF REPORT)