

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: P637373

Luminaire Tested: **IFLD-L-SA8C-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637373  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48195.1 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

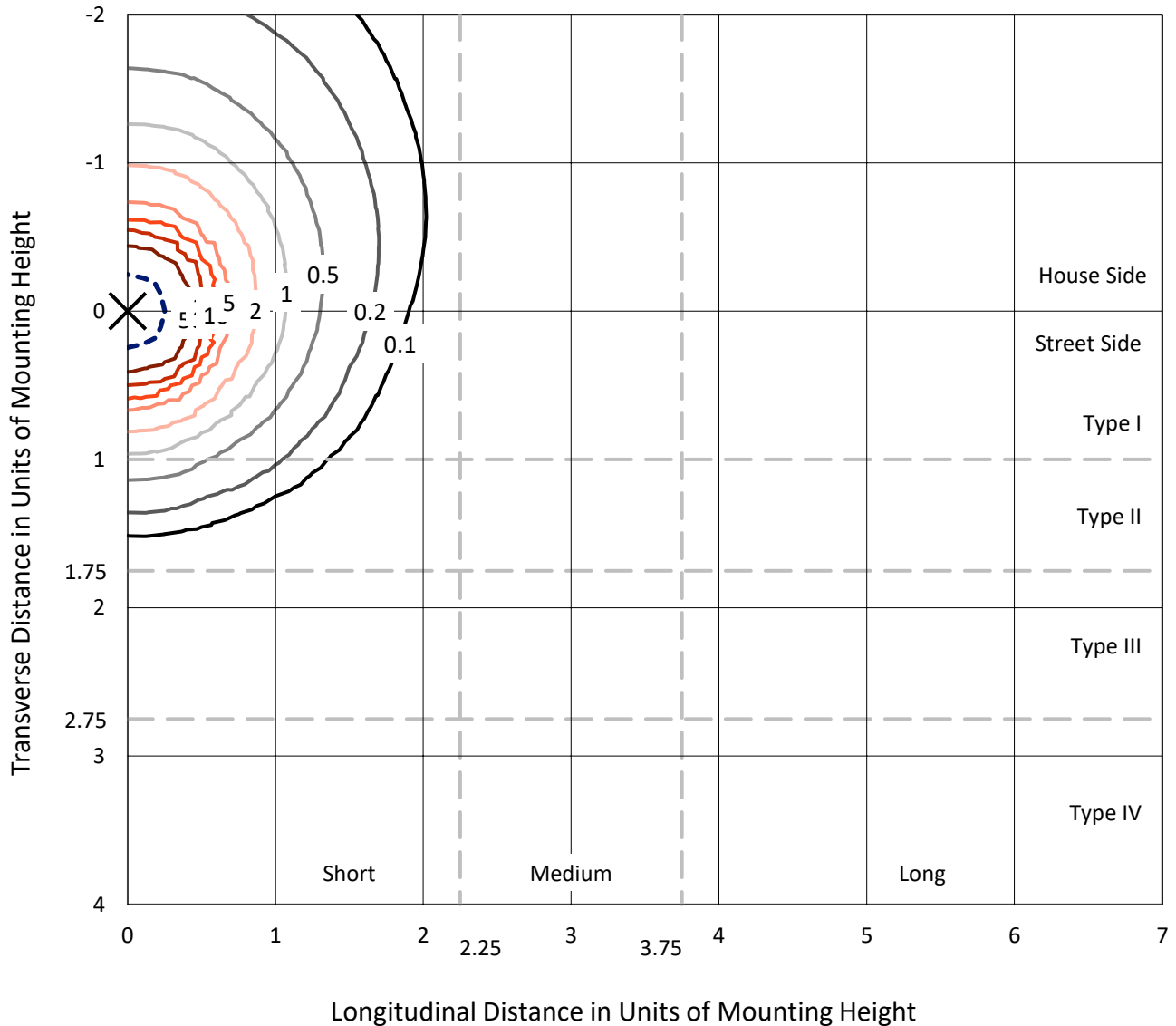
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

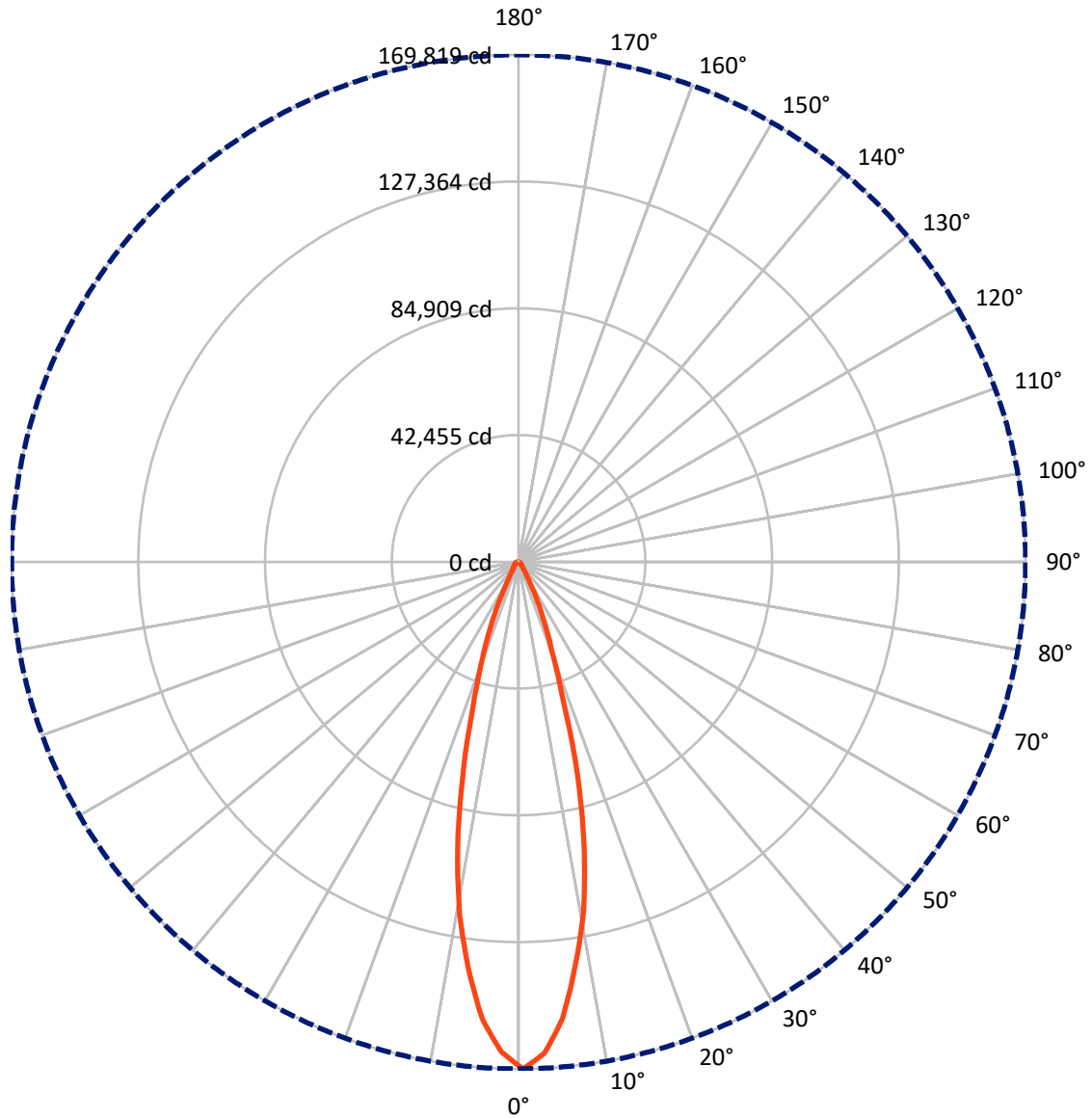
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 424.5 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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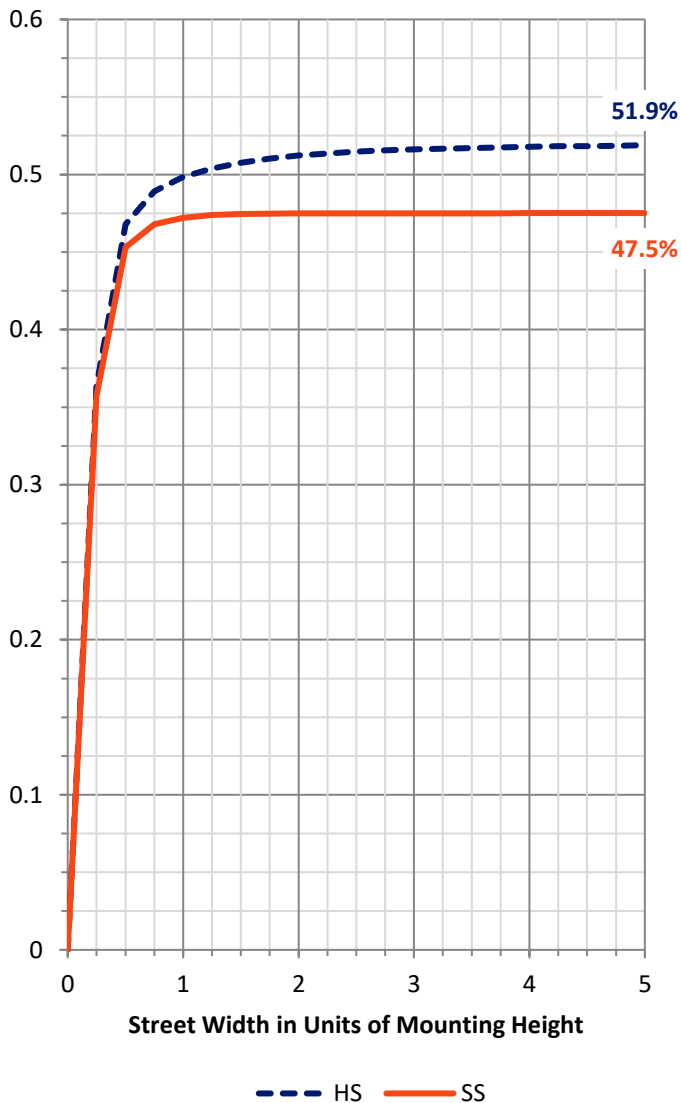
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25411.7	0.0	25411.7
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	22783.4	0.0	22783.4
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	48195.1	0.0	48195.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13705.9	28.4
10°-20°	20757.4	43.1
20°-30°	8759.7	18.2
30°-40°	2284.6	4.7
40°-50°	1155.5	2.4
50°-60°	755.3	1.6
60°-70°	452.5	0.9
70°-80°	238.0	0.5
80°-90°	86.0	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°	48195.1	100.0
0°-180°	48195.1	100.0

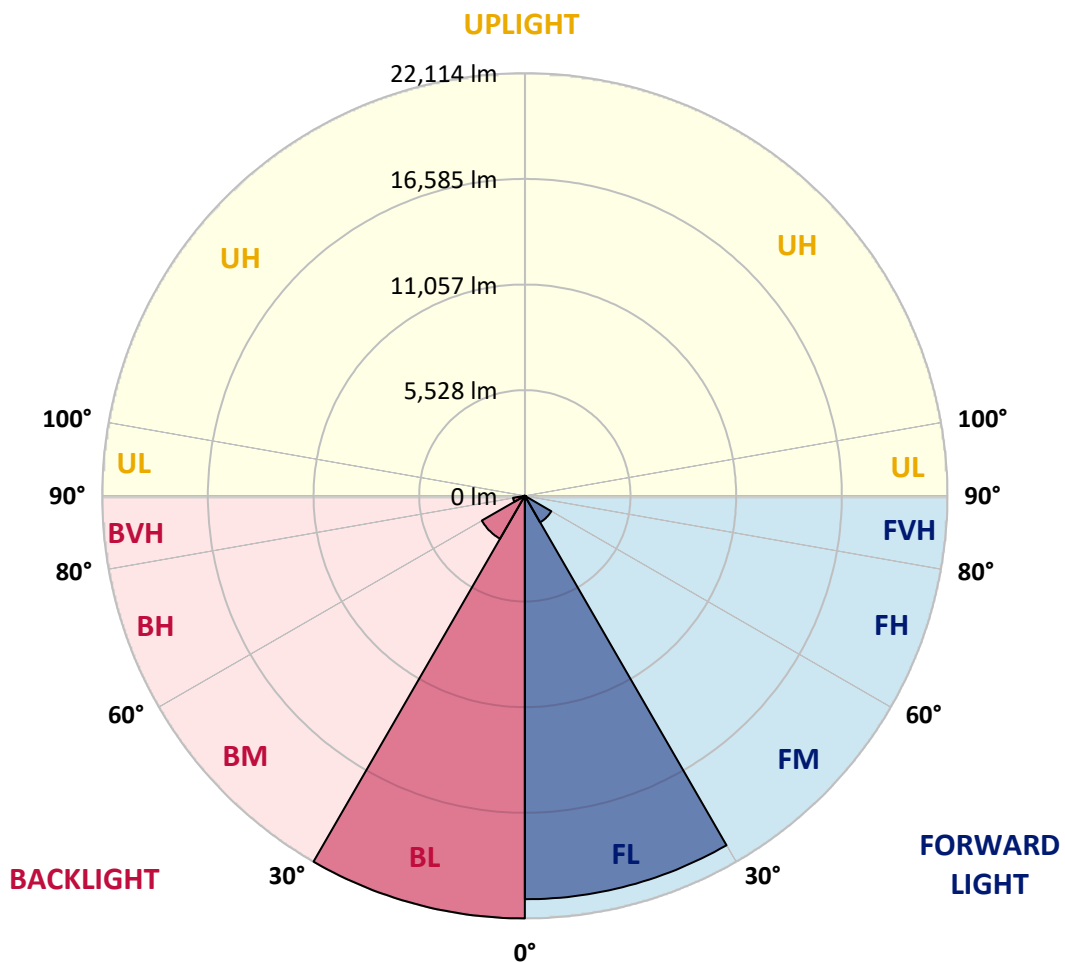


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21109.1	43.8			
FM (30°-60°)	1598.6	3.3			
FH (60°-80°)	65.1	0.1			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	22113.9	45.9	B5		
BM (30°-60°)	2596.8	5.4	B3/5000		
BH (60°-80°)	625.4	1.3	B2/1000		G0/660
BVH (80°-90°)	75.5	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°	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7
2.5°	164871.8	164963.8	164622.8	165358.9	164785.2	166322.3	165559.1	166749.9	166349.4	167015.1
5°	153614.0	153462.5	153365.1	154507.1	154176.9	155827.7	154772.3	154425.9	155497.5	155302.7
7.5°	136613.8	137014.3	136787.0	137084.6	137252.4	139135.9	139731.3	139265.8	139282.1	139552.7
10°	119185.9	118596.0	117757.0	118314.5	119494.4	120317.1	119986.9	120668.9	120517.4	121161.4
12.5°	97742.1	98207.5	97736.7	97238.7	99300.8	99073.5	99647.2	100020.7	99084.4	101168.1
15°	73624.5	73868.1	74441.8	74403.9	75989.7	76309.1	76233.3	76628.4	75897.7	76244.1
17.5°	47298.7	48121.4	49664.0	52272.7	55206.2	55547.2	55460.6	55135.9	54784.1	54394.4
20°	31770.6	31684.0	32241.5	33004.7	39077.3	40684.8	40636.1	39618.6	38146.4	37865.0
22.5°	22255.7	22418.1	22342.3	23100.0	24355.7	28788.4	28241.8	27208.0	26726.3	26412.4
25°	14640.5	14580.9	14959.8	15187.1	16264.2	16805.4	18721.4	18337.1	17595.6	17676.8
27.5°	8925.0	9000.8	9141.5	9336.3	10099.5	9926.3	11019.6	11165.7	10927.6	10673.2
30°	5477.3	5531.4	5645.1	5785.8	6051.0	5861.6	6164.7	6689.7	6603.1	6424.5
32.5°	3718.3	3723.7	3804.9	3859.0	3826.5	3647.9	3745.4	4243.3	4254.1	4237.9
35°	2673.7	2673.7	2749.5	2792.8	2700.8	2554.6	2570.9	2879.4	3014.7	3041.8
37.5°	1845.6	1851.0	1980.9	2110.8	2008.0	1970.1	1905.2	2110.8	2327.3	2359.8
40°	1401.8	1396.4	1461.3	1558.8	1569.6	1499.2	1520.9	1650.8	1872.7	1899.7
42.5°	1136.6	1142.0	1174.5	1163.7	1169.1	1261.1	1293.6	1353.1	1558.8	1607.5
45°	958.0	963.4	979.6	925.5	903.9	1044.6	1087.9	1120.4	1293.6	1353.1
47.5°	790.2	801.0	817.3	757.7	746.9	838.9	914.7	947.2	1098.7	1163.7
50°	568.3	579.1	638.7	606.2	638.7	660.3	763.1	811.9	914.7	1001.3
52.5°	411.3	422.2	438.4	443.8	525.0	535.8	611.6	687.4	736.1	833.5
55°	324.7	335.6	324.7	313.9	384.3	443.8	470.9	552.1	589.9	703.6
57.5°	184.0	194.8	211.1	243.6	254.4	341.0	368.0	438.4	470.9	579.1
60°	32.5	37.9	59.5	146.1	178.6	216.5	276.0	335.6	378.9	454.6
62.5°	5.4	5.4	10.8	32.5	102.8	151.5	200.3	238.1	276.0	346.4
65°	0.0	0.0	5.4	10.8	27.1	86.6	108.2	140.7	189.4	249.0
67.5°	0.0	0.0	5.4	10.8	16.2	32.5	48.7	86.6	108.2	167.8
70°	0.0	0.0	5.4	10.8	16.2	21.6	27.1	37.9	64.9	102.8
72.5°	0.0	0.0	5.4	10.8	16.2	21.6	27.1	32.5	32.5	64.9
75°	0.0	0.0	5.4	10.8	16.2	27.1	32.5	32.5	27.1	27.1
77.5°	0.0	0.0	5.4	10.8	21.6	32.5	37.9	32.5	21.6	21.6
80°	0.0	0.0	10.8	16.2	27.1	37.9	48.7	37.9	21.6	10.8
82.5°	0.0	0.0	10.8	21.6	27.1	43.3	59.5	48.7	21.6	10.8
85°	0.0	0.0	5.4	16.2	32.5	43.3	59.5	43.3	21.6	5.4
87.5°	0.0	0.0	5.4	5.4	10.8	16.2	32.5	27.1	10.8	5.4
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°
169818.7	0°	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7	169818.7
165754.0	2.5°	166706.6	167572.5	167751.2	167513.0	167859.4	167237.0	166760.7	165526.7	164785.2
155243.2	5°	156244.4	156114.5	157018.4	157316.1	157278.2	156801.9	156136.2	155389.3	154664.0
139027.7	7.5°	139893.7	140061.4	140884.1	141409.1	141143.9	140548.6	140088.5	139525.6	139038.5
121394.2	10°	122503.7	121350.9	122373.8	122373.8	123082.8	121399.6	121556.5	120138.5	120203.4
101130.2	12.5°	101476.6	101893.4	102061.2	102542.9	101714.8	100821.7	99728.4	99511.9	98835.4
75583.8	15°	76671.7	77862.4	76839.5	78587.7	77743.4	76812.4	76644.6	74966.8	75497.2
54821.9	17.5°	54551.3	55866.5	56277.9	57279.2	56510.6	55958.5	55260.4	54751.6	54713.7
38379.2	20°	38682.2	40002.9	40306.0	41507.5	41420.9	41247.7	40657.8	40013.7	39315.5
26125.5	22.5°	26520.6	27597.7	28604.4	30222.7	30195.6	29686.9	29627.3	28718.1	28734.3
17649.8	25°	17833.8	18618.6	18856.7	20512.9	20696.9	20642.8	20334.3	19490.0	19809.3
10781.5	27.5°	10792.3	11479.6	12286.1	12870.6	13422.7	13336.1	13027.6	12556.7	12351.0
6478.6	30°	6651.8	6960.3	7258.0	7961.6	8291.8	8465.0	8318.8	7880.4	7912.9
4265.0	32.5°	4357.0	4616.8	4833.3	5277.1	5450.3	5769.6	5710.1	5618.0	5509.8
3068.8	35°	3177.1	3366.5	3512.6	3718.3	3940.2	4210.8	4254.1	4216.2	4172.9
2370.6	37.5°	2424.7	2619.6	2787.4	2874.0	3047.2	3258.2	3377.3	3371.9	3339.4
1932.2	40°	1970.1	2116.2	2267.8	2381.4	2500.5	2657.5	2803.6	2819.8	2819.8
1623.7	42.5°	1645.4	1769.8	1921.4	2040.5	2127.1	2273.2	2424.7	2435.6	2424.7
1374.7	45°	1407.2	1515.5	1661.6	1802.3	1872.7	1980.9	2127.1	2159.5	2137.9
1179.9	47.5°	1223.2	1320.6	1445.1	1596.7	1672.4	1769.8	1905.2	1943.0	1937.6
1017.5	50°	1050.0	1163.7	1288.1	1412.6	1510.1	1602.1	1732.0	1775.3	1759.0
866.0	52.5°	925.5	1028.4	1136.6	1271.9	1385.6	1466.8	1569.6	1645.4	1623.7
730.7	55°	774.0	898.5	1012.1	1125.8	1266.5	1353.1	1450.5	1542.5	1520.9
617.0	57.5°	671.1	774.0	903.9	1006.7	1147.4	1250.3	1347.7	1445.1	1439.7
503.4	60°	562.9	671.1	795.6	903.9	1033.8	1147.4	1244.8	1353.1	1363.9
378.9	62.5°	443.8	573.7	682.0	806.4	936.3	1060.8	1147.4	1255.7	1271.9
286.9	65°	335.6	470.9	589.9	709.0	838.9	974.2	1050.0	1142.0	1158.2
211.1	67.5°	249.0	362.6	503.4	611.6	746.9	876.8	947.2	1022.9	1050.0
129.9	70°	189.4	276.0	422.2	525.0	665.7	768.6	844.3	909.3	930.9
86.6	72.5°	119.1	216.5	341.0	449.2	573.7	665.7	719.8	757.7	790.2
48.7	75°	81.2	167.8	276.0	384.3	476.3	546.6	595.4	627.8	654.9
21.6	77.5°	48.7	129.9	227.3	319.3	378.9	433.0	481.7	503.4	519.6
16.2	80°	27.1	97.4	189.4	259.8	297.7	335.6	373.5	400.5	411.3
10.8	82.5°	16.2	75.8	151.5	200.3	216.5	254.4	292.3	308.5	308.5
5.4	85°	10.8	54.1	102.8	146.1	157.0	184.0	194.8	205.7	216.5
5.4	87.5°	10.8	32.5	64.9	81.2	86.6	97.4	102.8	113.7	124.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
169818.7  
164238.5  
153852.2  
137387.7  
119570.2  
98218.4  
74966.8  
53707.0  
39012.4  
28420.4  
19305.9  
12172.4  
7772.2  
5471.9  
4156.7  
3323.2  
2787.4  
2413.9  
2137.9  
1926.8  
1748.2  
1618.3  
1531.7  
1445.1  
1369.3  
1282.7  
1174.5  
1060.8  
941.8  
784.8  
649.5  
514.2  
400.5  
303.1  
211.1  
119.1  
0.0

(END OF REPORT)