

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: P637064

Luminaire Tested: **IFLD-S-SA3D-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637064  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21106.3 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

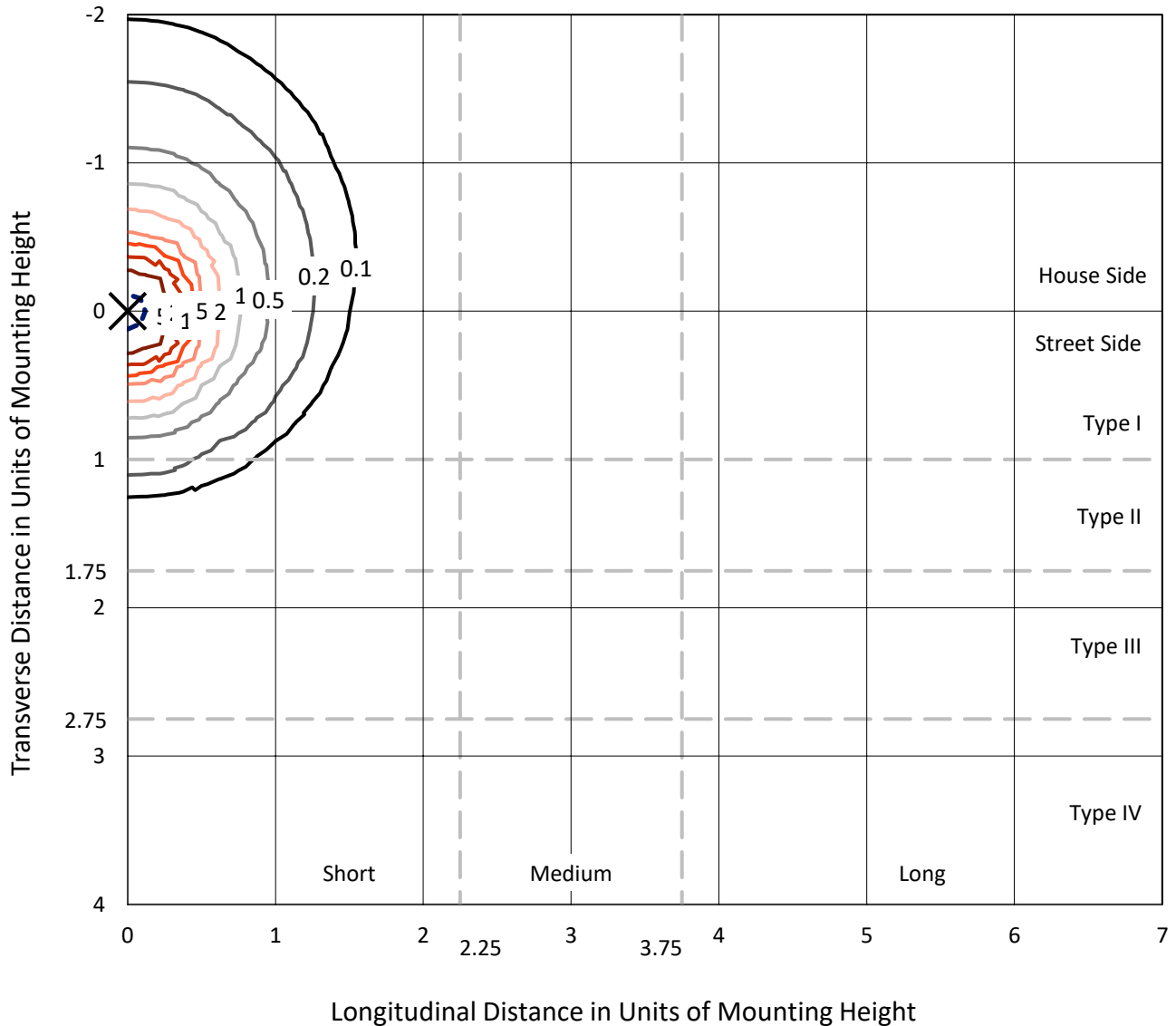
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

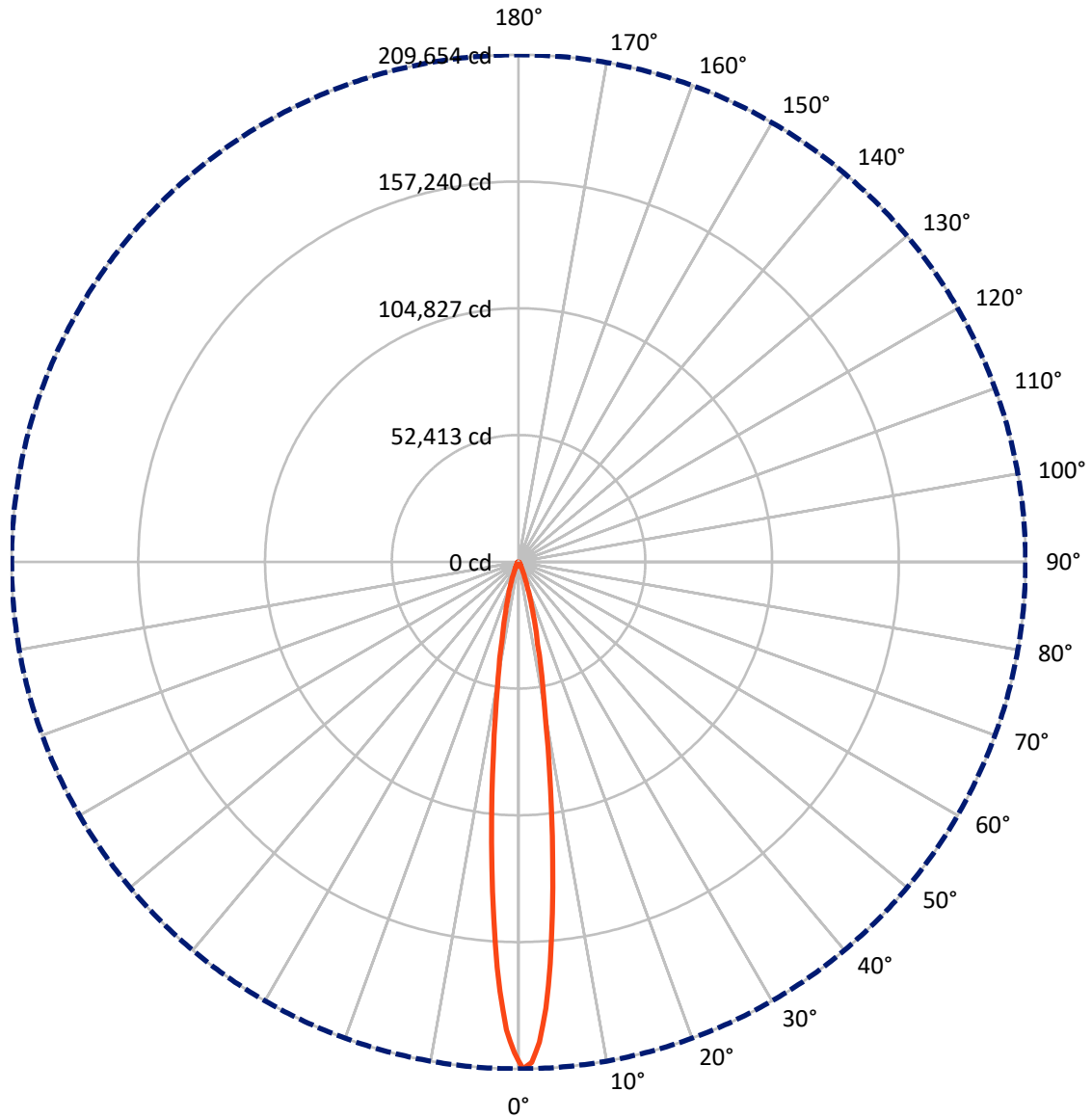
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 524.1 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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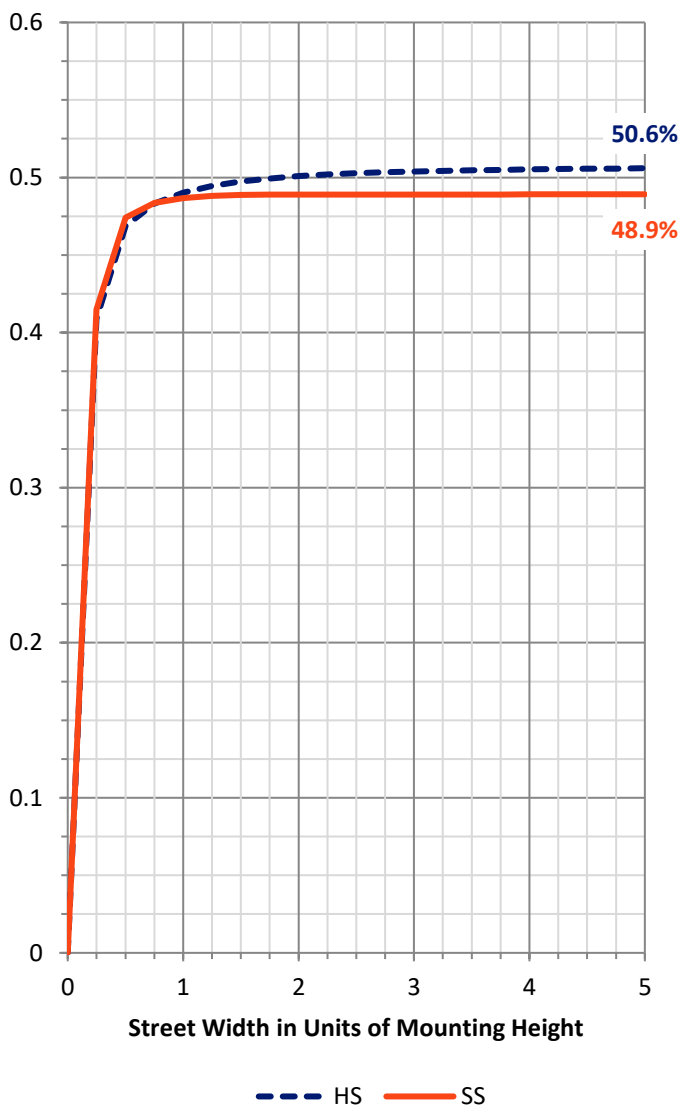
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10810.2	0.0	10810.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	10296.0	0.0	10296.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	21106.3	0.0	21106.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10655.1	50.5
10°-20°	6821.3	32.3
20°-30°	2050.4	9.7
30°-40°	667.6	3.2
40°-50°	388.4	1.8
50°-60°	258.0	1.2
60°-70°	155.3	0.7
70°-80°	79.8	0.4
80°-90°	30.3	0.1
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°	21106.3	100.0
0°-180°	21106.3	100.0

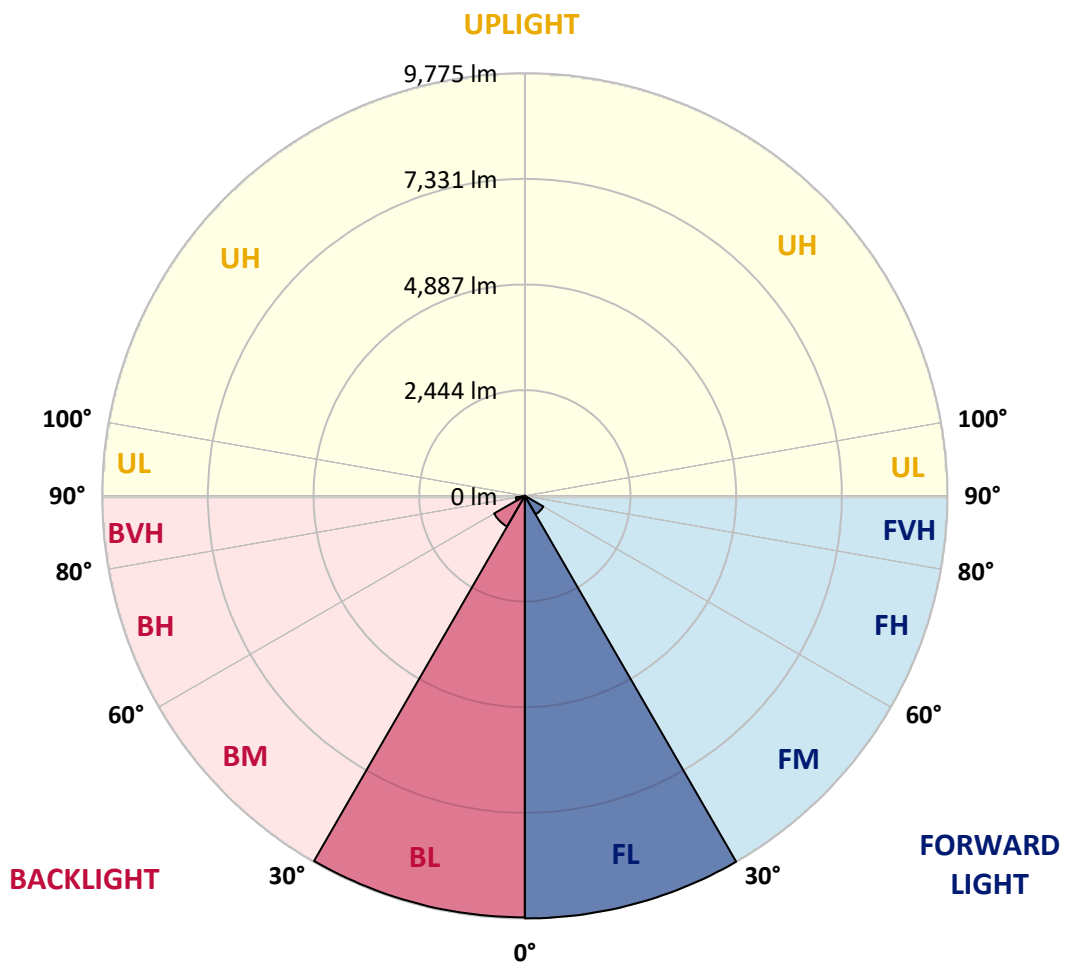


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9775.0	46.3			
FM (30°-60°)	493.3	2.3			
FH (60°-80°)	23.2	0.1			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	9751.8	46.2	B5		
BM (30°-60°)	820.8	3.9	B1/1000		
BH (60°-80°)	211.9	1.0	B1/500		G0/660
BVH (80°-90°)	25.8	0.1			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°	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5
1°	207143.2	206511.0	204878.8	206039.7	207060.4	206763.9	206743.2	206632.8	206478.8	207688.0
2°	198862.9	198453.7	196039.9	197035.3	198485.9	197428.4	198090.5	197508.9	197520.4	198964.0
3°	184904.5	185127.5	181277.0	183086.2	185102.2	182539.0	183334.4	184828.7	183263.2	182791.9
4°	166762.3	164826.7	162723.3	164562.4	165084.2	163592.3	165058.9	166888.8	164714.1	164810.6
5°	146050.1	144620.2	142130.6	143266.2	141972.0	142443.3	144640.9	145394.9	143877.7	141967.4
6°	124753.9	123737.9	120625.3	122262.0	121802.3	121535.6	124310.3	122011.5	122839.0	121682.7
7°	103770.4	101871.6	100342.9	101910.7	102011.8	101209.6	104811.8	104393.4	102887.7	102538.3
8°	85975.4	84081.2	82786.9	83954.7	84717.9	83458.2	85152.4	86265.0	85088.0	85193.8
9°	69343.5	69010.2	67210.2	68736.6	69566.5	68217.1	70092.9	70495.2	69394.1	69929.7
10°	56936.8	56548.3	55111.6	55730.0	57104.7	55495.5	57295.5	57426.5	56548.3	56798.9
12.5°	35185.5	35029.2	34990.1	35079.8	35061.4	35346.5	35806.2	35282.1	35213.1	34346.5
15°	22742.1	22974.3	22735.2	23195.0	23261.6	23530.6	23250.1	22827.2	22020.3	21620.3
17.5°	14192.8	14489.4	14898.6	15572.1	16245.7	16323.8	15951.4	15454.9	15064.1	14636.5
20°	8165.4	8310.2	8248.1	9055.0	10797.5	11271.0	10790.6	10268.8	9797.5	9365.3
22.5°	5073.5	5020.6	5117.1	5388.4	5956.2	7420.5	7027.5	6505.6	6163.1	5806.8
25°	3110.3	3167.8	3131.0	3280.4	3535.6	4156.2	4245.9	4020.6	3845.9	3662.0
27.5°	2002.3	2002.3	2018.4	2101.1	2275.8	2255.1	2733.3	2558.6	2464.3	2374.7
30°	1390.8	1395.4	1395.4	1443.7	1482.7	1413.8	1537.9	1763.2	1719.5	1650.5
32.5°	1032.2	1046.0	1057.5	1082.7	1050.6	977.0	1006.9	1268.9	1243.7	1218.4
35°	786.2	797.7	825.3	839.1	793.1	747.1	719.5	933.3	944.8	937.9
37.5°	572.4	579.3	629.9	682.7	629.9	588.5	572.4	717.2	772.4	765.5
40°	439.1	441.4	450.6	510.3	510.3	478.2	482.7	535.6	632.2	632.2
42.5°	377.0	377.0	386.2	377.0	379.3	413.8	425.3	432.2	535.6	535.6
45°	326.4	326.4	331.0	308.0	285.1	356.3	365.5	367.8	450.6	462.1
47.5°	273.6	273.6	282.8	252.9	241.4	282.8	308.0	314.9	388.5	397.7
50°	202.3	204.6	232.2	206.9	213.8	218.4	266.7	271.3	328.7	349.4
52.5°	135.6	135.6	140.2	160.9	186.2	179.3	216.1	232.2	262.1	289.6
55°	110.3	110.3	108.0	103.4	137.9	149.4	158.6	193.1	213.8	248.3
57.5°	75.9	80.5	73.6	85.1	89.7	112.6	119.5	151.7	163.2	209.2
60°	9.2	11.5	16.1	62.1	59.8	75.9	89.7	119.5	133.3	160.9
62.5°	2.3	2.3	4.6	11.5	41.4	50.6	71.3	82.8	96.5	124.1
65°	0.0	0.0	2.3	4.6	9.2	27.6	36.8	48.3	69.0	87.4
67.5°	0.0	0.0	2.3	4.6	4.6	11.5	18.4	29.9	36.8	64.4
70°	0.0	0.0	2.3	4.6	4.6	9.2	11.5	13.8	25.3	34.5
72.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	11.5	11.5	23.0
75°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	11.5	9.2	9.2
77.5°	0.0	0.0	2.3	4.6	9.2	11.5	13.8	11.5	6.9	6.9
80°	0.0	0.0	2.3	6.9	11.5	16.1	18.4	13.8	6.9	4.6
82.5°	0.0	0.0	4.6	9.2	13.8	18.4	25.3	20.7	9.2	4.6
85°	0.0	0.0	2.3	6.9	13.8	18.4	36.8	25.3	11.5	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	13.8	9.2	4.6	2.3
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°
209653.5	0°	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5	209653.5
206292.6	1°	207734.0	207878.8	207405.2	208138.6	207881.1	206373.1	205874.2	205283.4
198115.8	2°	197508.9	198246.8	198283.6	199097.3	199085.9	197327.3	196782.4	197787.0
183748.2	3°	183191.9	184051.7	183277.0	184722.9	184288.4	182155.1	181601.1	182741.3
165573.8	4°	165079.6	164916.4	164649.7	163826.8	164840.5	163385.4	162288.9	163836.0
144500.7	5°	144211.0	143847.8	143328.3	143084.6	143838.6	142907.6	140652.5	142912.2
123774.6	6°	123926.4	122363.2	122287.3	122151.7	122227.6	119620.7	119777.0	121459.7
101336.0	7°	102407.2	102694.6	102108.4	103048.6	102331.4	100565.9	99885.4	101657.8
85658.1	8°	85060.4	84697.2	84249.0	85653.5	84409.9	83251.3	82458.2	83858.2
70017.1	9°	69886.0	69258.4	68803.3	68732.0	68925.1	66750.4	67191.8	68251.6
56936.8	10°	56957.5	55927.7	56178.2	56244.9	56033.4	54608.2	54621.9	54987.5
34921.2	12.5°	34797.0	34291.3	34417.7	34486.7	34916.6	34415.4	33707.4	33197.1
22018.0	15°	21870.8	21507.6	22250.1	22749.0	22647.8	22201.9	21868.5	21406.5
14636.5	17.5°	14500.9	14976.7	14979.0	15434.2	15480.2	15034.2	14776.7	14360.6
9519.4	20°	9484.9	9682.6	10094.1	10415.9	10602.1	10261.9	9953.8	9668.8
5935.5	22.5°	5935.5	6280.3	6537.8	6956.2	7126.3	6878.0	6659.6	6427.5
3705.7	25°	3643.6	3889.6	4103.4	4466.6	4698.8	4579.2	4379.2	4216.0
2393.1	27.5°	2429.8	2533.3	2639.0	2889.6	3131.0	3064.3	2983.9	2885.0
1687.3	30°	1712.6	1721.8	1834.4	1974.7	2135.6	2177.0	2140.2	2089.6
1239.1	32.5°	1262.0	1298.8	1351.7	1439.1	1547.1	1645.9	1627.6	1604.6
947.1	35°	974.7	1029.9	1073.5	1140.2	1197.7	1291.9	1308.0	1301.1
779.3	37.5°	795.4	843.7	887.3	926.4	974.7	1039.1	1089.6	1091.9
643.7	40°	659.8	703.4	760.9	790.8	825.3	873.5	935.6	940.2
544.8	42.5°	556.3	597.7	655.2	691.9	717.2	763.2	825.3	834.5
466.7	45°	478.2	503.4	563.2	606.9	632.2	662.1	728.7	737.9
402.3	47.5°	416.1	441.4	478.2	540.2	563.2	590.8	643.7	659.8
356.3	50°	365.5	390.8	423.0	478.2	512.6	535.6	579.3	602.3
310.3	52.5°	324.1	349.4	383.9	427.6	466.7	487.3	528.7	558.6
252.9	55°	271.3	314.9	340.2	379.3	432.2	450.6	482.7	521.8
220.7	57.5°	236.8	273.6	310.3	342.5	395.4	418.4	450.6	487.3
174.7	60°	200.0	234.5	278.2	305.7	356.3	386.2	420.7	455.2
133.3	62.5°	158.6	204.6	234.5	273.6	321.8	360.9	388.5	423.0
103.4	65°	117.2	167.8	202.3	243.7	289.6	331.0	354.0	390.8
73.6	67.5°	85.1	131.0	172.4	211.5	255.2	296.5	319.5	351.7
46.0	70°	66.7	96.5	142.5	177.0	223.0	257.5	282.8	303.4
29.9	72.5°	39.1	73.6	114.9	154.0	195.4	218.4	236.8	255.2
13.8	75°	25.3	57.5	94.3	128.7	158.6	179.3	195.4	211.5
6.9	77.5°	16.1	41.4	75.9	108.0	121.8	147.1	160.9	170.1
4.6	80°	9.2	32.2	66.7	87.4	98.8	114.9	128.7	140.2
4.6	82.5°	6.9	27.6	55.2	73.6	73.6	92.0	98.8	98.8
2.3	85°	4.6	23.0	43.7	69.0	55.2	69.0	64.4	64.4
2.3	87.5°	4.6	16.1	20.7	29.9	25.3	29.9	29.9	34.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
209653.5  
202943.2  
193531.9  
177677.1  
158236.1  
136958.3  
116581.7  
96837.2  
79860.5  
64941.3  
52500.1  
32886.7  
21169.7  
14257.2  
9569.9  
6303.3  
4121.8  
2827.5  
2055.1  
1586.2  
1278.1  
1075.8  
933.3  
827.6  
735.6  
662.1  
604.6  
558.6  
524.1  
489.6  
464.4  
439.1  
397.7  
354.0  
310.3  
259.8  
211.5  
165.5  
126.4  
92.0  
62.1  
34.5  
0.0

(END OF REPORT)