

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: P637166

Luminaire Tested: **IFLD-L-SA7D-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637166
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49620.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

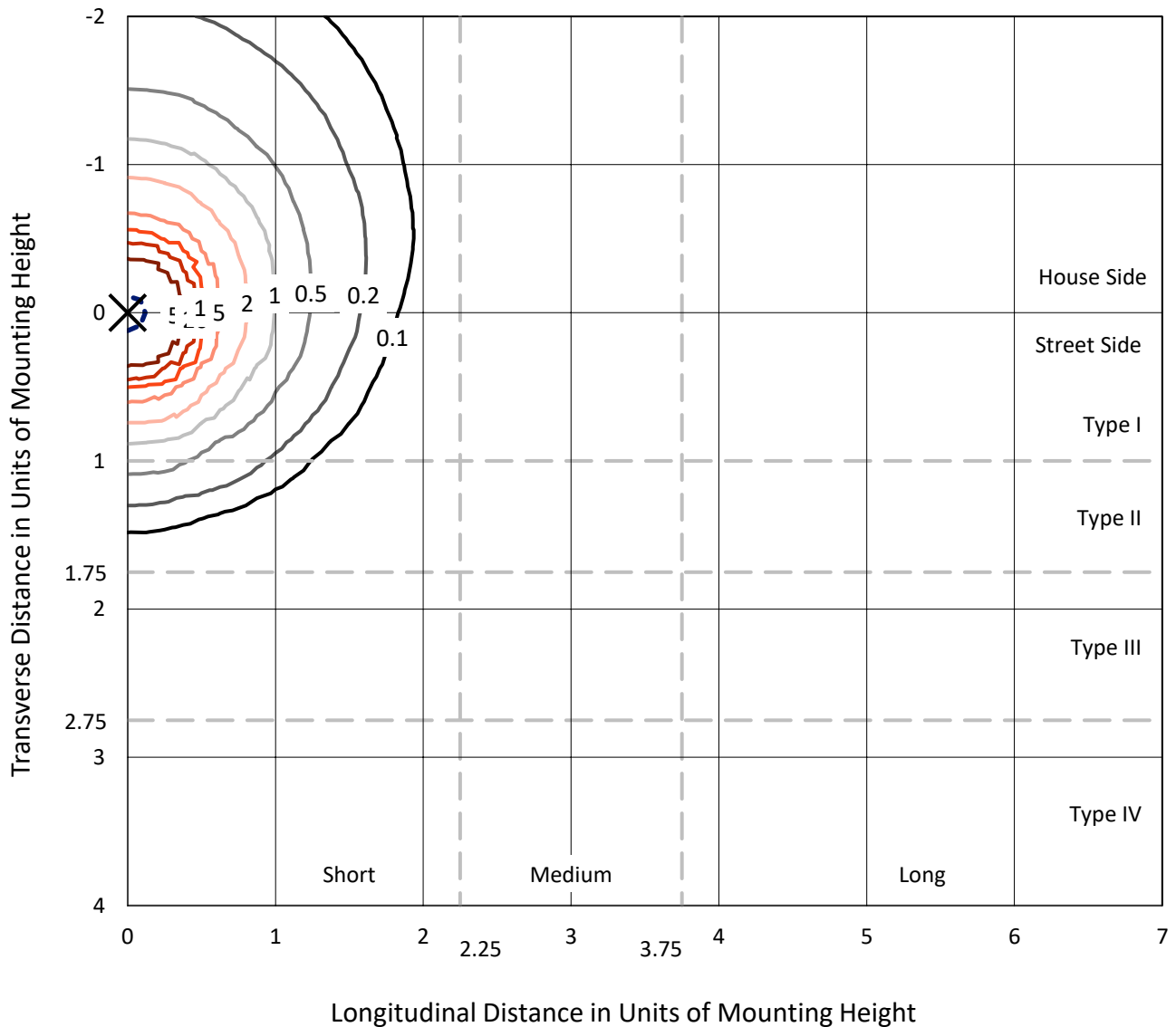
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

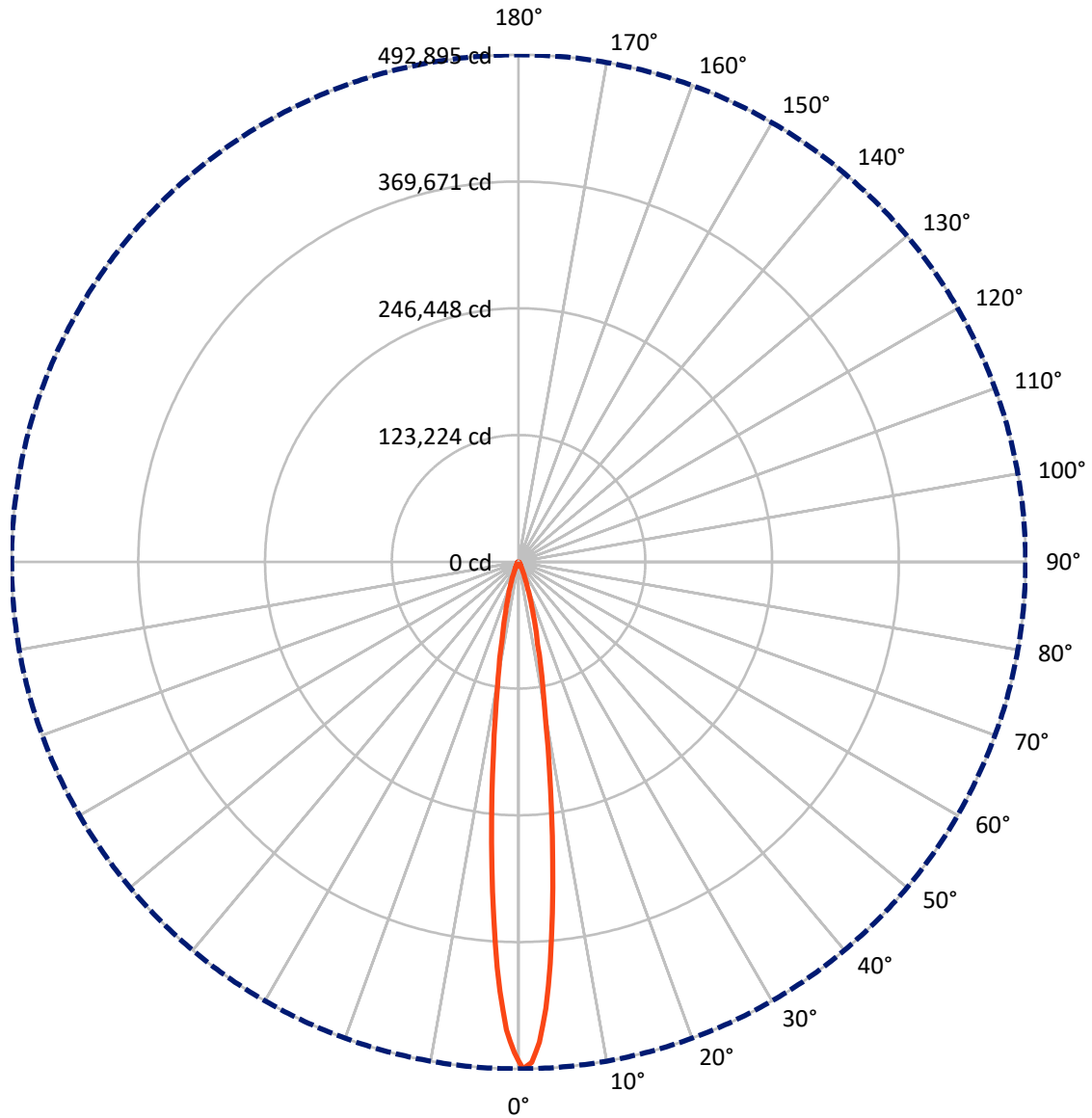
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1232.2 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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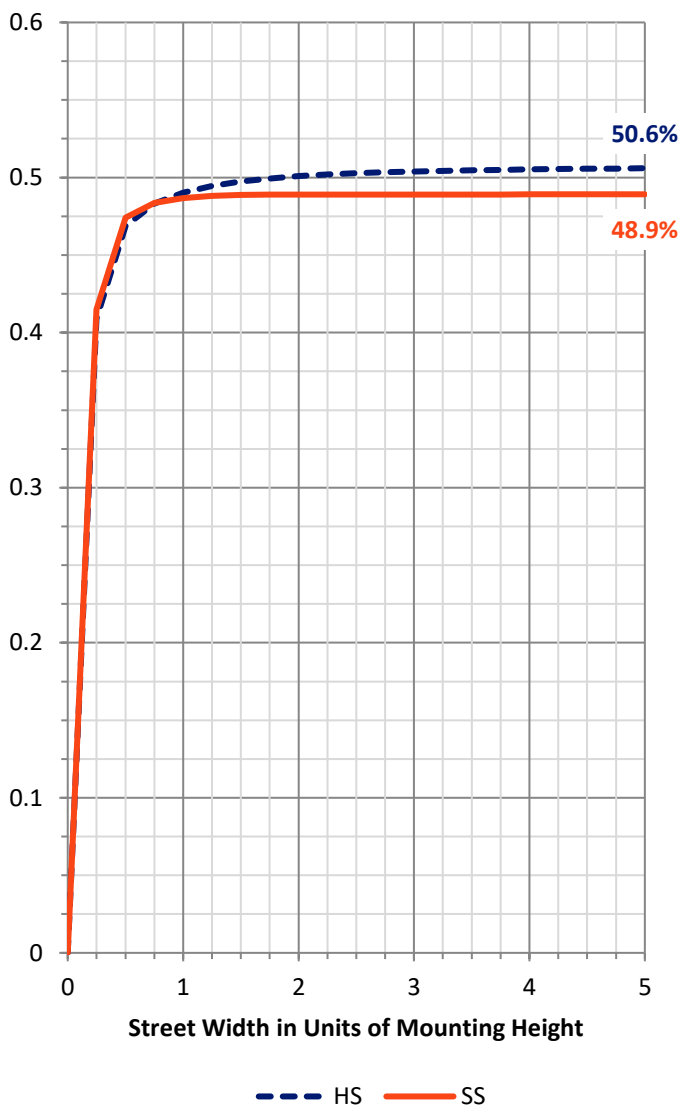
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25414.8	0.0	25414.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	24205.9	0.0	24205.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	49620.7	0.0	49620.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25050.1	50.5
10°-20°	16036.9	32.3
20°-30°	4820.4	9.7
30°-40°	1569.5	3.2
40°-50°	913.2	1.8
50°-60°	606.6	1.2
60°-70°	365.1	0.7
70°-80°	187.7	0.4
80°-90°	71.3	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°	49620.7	100.0
0°-180°	49620.7	100.0

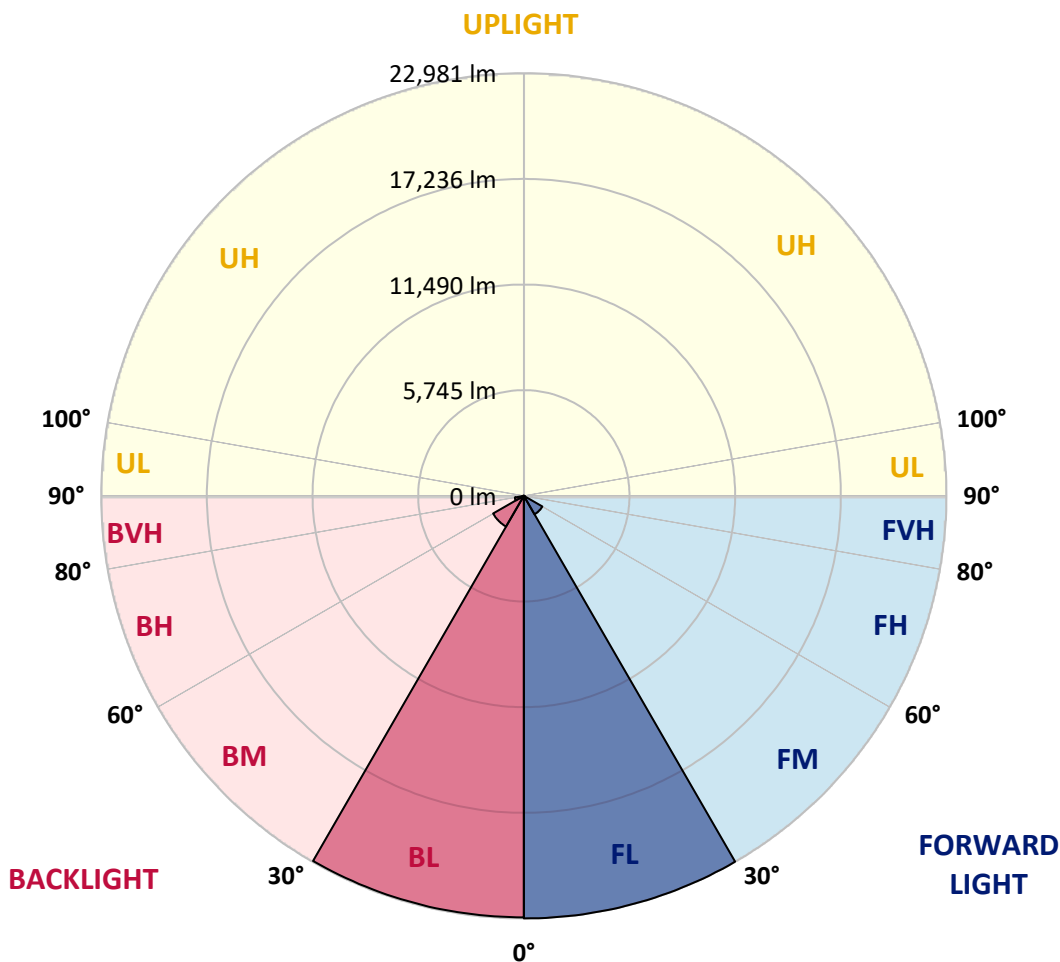


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22980.9	46.3			
FM (30°-60°)	1159.7	2.3			
FH (60°-80°)	54.6	0.1			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	22926.5	46.2	B5		
BM (30°-60°)	1929.6	3.9	B2/2500		
BH (60°-80°)	498.2	1.0	B1/500		G0/660
BVH (80°-90°)	60.5	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°	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2
1°	486993.5	485507.2	481670.0	484399.3	486798.9	486101.7	486053.1	485793.7	485431.6	488274.3
2°	467526.5	466564.5	460889.8	463229.9	466640.1	464154.1	465710.6	464343.2	464370.2	467764.3
3°	434710.4	435234.6	426182.1	430435.4	435175.2	429149.2	431019.1	434532.0	430851.6	429743.7
4°	392058.1	387507.5	382562.4	386886.0	388112.8	384605.3	388053.4	392355.4	387242.7	387469.7
5°	343363.6	340002.1	334149.0	336818.8	333776.1	334884.0	340050.7	341823.4	338256.4	333765.3
6°	293296.4	290907.6	283590.0	287438.0	286357.1	285730.1	292253.4	286848.9	288794.5	286076.0
7°	243964.2	239500.1	235906.1	239592.0	239829.8	237943.6	246412.5	245428.8	241888.9	241067.4
8°	202128.0	197674.7	194632.0	197377.5	199171.8	196210.1	200193.2	202809.0	200041.9	200290.5
9°	163026.5	162242.9	158011.2	161599.7	163550.8	160378.3	164788.4	165734.2	163145.4	164404.7
10°	133858.5	132945.1	129567.3	131021.1	134253.0	130469.9	134701.6	135009.6	132945.1	133534.2
12.5°	82721.2	82353.7	82261.8	82472.6	82429.3	83099.5	84180.4	82948.2	82786.0	80748.5
15°	53466.6	54012.5	53450.4	54531.3	54688.1	55320.4	54661.0	53666.6	51769.6	50829.3
17.5°	33367.3	34064.5	35026.5	36610.0	38193.6	38377.3	37501.8	36334.4	35415.6	34410.4
20°	19196.8	19537.2	19391.3	21288.3	25384.9	26498.2	25368.7	24141.9	23033.9	22017.9
22.5°	11927.7	11803.4	12030.4	12668.1	14003.0	17445.7	16521.5	15294.7	14489.4	13651.7
25°	7312.3	7447.4	7360.9	7712.2	8312.1	9771.3	9982.1	9452.5	9041.7	8609.4
27.5°	4707.3	4707.3	4745.1	4939.7	5350.4	5301.8	6425.9	6015.2	5793.6	5582.8
30°	3269.7	3280.5	3280.5	3394.0	3485.9	3323.8	3615.6	4145.2	4042.6	3880.4
32.5°	2426.6	2459.0	2486.1	2545.5	2469.9	2296.9	2367.2	2983.3	2923.8	2864.4
35°	1848.3	1875.4	1940.2	1972.6	1864.6	1756.5	1691.6	2194.2	2221.2	2205.0
37.5°	1345.7	1361.9	1480.8	1605.1	1480.8	1383.6	1345.7	1686.2	1815.9	1799.7
40°	1032.3	1037.7	1059.3	1199.8	1199.8	1124.1	1134.9	1259.2	1486.2	1486.2
42.5°	886.3	886.3	908.0	886.3	891.7	972.8	999.8	1016.0	1259.2	1259.2
45°	767.4	767.4	778.2	724.2	670.2	837.7	859.3	864.7	1059.3	1086.3
47.5°	643.1	643.1	664.8	594.5	567.5	664.8	724.2	740.4	913.4	935.0
50°	475.6	481.0	545.9	486.4	502.6	513.4	626.9	637.7	772.8	821.5
52.5°	318.9	318.9	329.7	378.3	437.8	421.6	508.0	545.9	616.1	681.0
55°	259.4	259.4	254.0	243.2	324.3	351.3	372.9	454.0	502.6	583.7
57.5°	178.3	189.2	172.9	200.0	210.8	264.8	281.0	356.7	383.7	491.8
60°	21.6	27.0	37.8	145.9	140.5	178.3	210.8	281.0	313.5	378.3
62.5°	5.4	5.4	10.8	27.0	97.3	118.9	167.5	194.6	227.0	291.8
65°	0.0	0.0	5.4	10.8	21.6	64.9	86.5	113.5	162.1	205.4
67.5°	0.0	0.0	5.4	10.8	10.8	27.0	43.2	70.3	86.5	151.3
70°	0.0	0.0	5.4	10.8	10.8	21.6	27.0	32.4	59.4	81.1
72.5°	0.0	0.0	5.4	10.8	16.2	21.6	27.0	27.0	27.0	54.0
75°	0.0	0.0	5.4	10.8	16.2	21.6	27.0	27.0	21.6	21.6
77.5°	0.0	0.0	5.4	10.8	21.6	27.0	32.4	27.0	16.2	16.2
80°	0.0	0.0	5.4	16.2	27.0	37.8	43.2	32.4	16.2	10.8
82.5°	0.0	0.0	10.8	21.6	32.4	43.2	59.4	48.6	21.6	10.8
85°	0.0	0.0	5.4	16.2	32.4	43.2	86.5	59.4	27.0	5.4
87.5°	0.0	0.0	0.0	5.4	5.4	10.8	32.4	21.6	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°
492895.2	0°	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2	492895.2
484993.8	1°	488382.4	488722.9	487609.6	489333.6	488728.3	485182.9	484010.2	482621.2
465770.0	2°	464343.2	466078.1	466164.5	468077.7	468050.7	463916.3	462635.4	464997.2
431991.9	3°	430684.0	432705.3	430884.0	434283.4	433262.0	428246.6	426944.1	429624.8
389264.0	4°	388102.0	387718.3	387091.4	385156.6	387540.0	384118.9	381541.0	385178.2
339721.0	5°	339040.1	338186.1	336964.7	336391.9	338164.5	335975.7	330673.9	335986.5
290994.1	6°	291350.8	287675.8	287497.4	287178.5	287356.9	281228.2	281595.7	285551.8
238240.9	7°	240759.4	241434.9	240056.8	242267.2	240581.0	236430.4	234830.6	238997.5
201382.2	8°	199977.0	199123.1	198069.3	201371.4	198447.6	195723.7	193859.2	197150.5
164610.0	9°	164302.0	162826.6	161756.5	161588.9	162042.9	156930.3	157967.9	160459.4
133858.5	10°	133907.1	131485.9	132075.0	132231.7	131734.5	128383.7	128416.2	129275.5
82099.7	12.5°	81807.8	80618.8	80916.1	81078.2	82088.8	80910.7	79246.1	78046.3
51764.2	15°	51418.3	50564.4	52310.1	53482.9	53245.1	52196.6	51412.9	50326.6
34410.4	17.5°	34091.5	35210.3	35215.7	36285.8	36393.9	35345.4	34740.1	33761.9
22380.0	20°	22298.9	22763.7	23731.1	24487.8	24925.5	24125.7	23401.5	22731.3
13954.4	22.5°	13954.4	14765.1	15370.4	16354.0	16753.9	16170.2	15656.8	15111.0
8712.0	25°	8566.1	9144.4	9647.0	10500.9	11046.8	10765.7	10295.6	9911.8
5626.1	27.5°	5712.5	5955.8	6204.4	6793.4	7360.9	7204.2	7015.0	6782.6
3966.9	30°	4026.3	4048.0	4312.8	4642.5	5020.8	5118.1	5031.6	4912.7
2913.0	32.5°	2967.1	3053.5	3177.8	3383.2	3637.2	3869.6	3826.4	3772.3
2226.7	35°	2291.5	2421.2	2523.9	2680.6	2815.7	3037.3	3075.2	3058.9
1832.1	37.5°	1870.0	1983.4	2086.1	2178.0	2291.5	2442.8	2561.7	2567.1
1513.3	40°	1551.1	1653.8	1788.9	1859.1	1940.2	2053.7	2199.6	2210.4
1280.9	42.5°	1307.9	1405.2	1540.3	1626.8	1686.2	1794.3	1940.2	1961.8
1097.1	45°	1124.1	1183.6	1324.1	1426.8	1486.2	1556.5	1713.2	1734.8
945.8	47.5°	978.2	1037.7	1124.1	1270.1	1324.1	1389.0	1513.3	1551.1
837.7	50°	859.3	918.8	994.4	1124.1	1205.2	1259.2	1361.9	1416.0
729.6	52.5°	762.0	821.5	902.6	1005.2	1097.1	1145.8	1243.0	1313.3
594.5	55°	637.7	740.4	799.9	891.7	1016.0	1059.3	1134.9	1226.8
518.8	57.5°	556.7	643.1	729.6	805.3	929.6	983.6	1059.3	1145.8
410.7	60°	470.2	551.3	653.9	718.8	837.7	908.0	989.0	1070.1
313.5	62.5°	372.9	481.0	551.3	643.1	756.6	848.5	913.4	994.4
243.2	65°	275.6	394.5	475.6	572.9	681.0	778.2	832.3	918.8
172.9	67.5°	200.0	308.1	405.3	497.2	599.9	697.2	751.2	826.9
108.1	70°	156.7	227.0	335.1	416.1	524.2	605.3	664.8	713.4
70.3	72.5°	91.9	172.9	270.2	362.1	459.4	513.4	556.7	599.9
32.4	75°	59.4	135.1	221.6	302.7	372.9	421.6	459.4	497.2
16.2	77.5°	37.8	97.3	178.3	254.0	286.4	345.9	378.3	399.9
10.8	80°	21.6	75.7	156.7	205.4	232.4	270.2	302.7	329.7
10.8	82.5°	16.2	64.9	129.7	172.9	172.9	216.2	232.4	232.4
5.4	85°	10.8	54.0	102.7	162.1	129.7	162.1	151.3	151.3
5.4	87.5°	10.8	37.8	48.6	70.3	59.4	70.3	70.3	81.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
492895.2
477119.4
454993.4
417718.7
372012.9
321988.9
274083.5
227664.3
187752.1
152676.9
123427.8
77316.7
49770.0
33518.7
22498.9
14819.1
9690.3
6647.5
4831.6
3729.1
3004.9
2529.3
2194.2
1945.6
1729.4
1556.5
1421.4
1313.3
1232.2
1151.2
1091.7
1032.3
935.0
832.3
729.6
610.7
497.2
389.1
297.2
216.2
145.9
81.1
0.0

(END OF REPORT)