

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: P637098

Luminaire Tested: **IFLD-S-SA6D-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44846.6 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

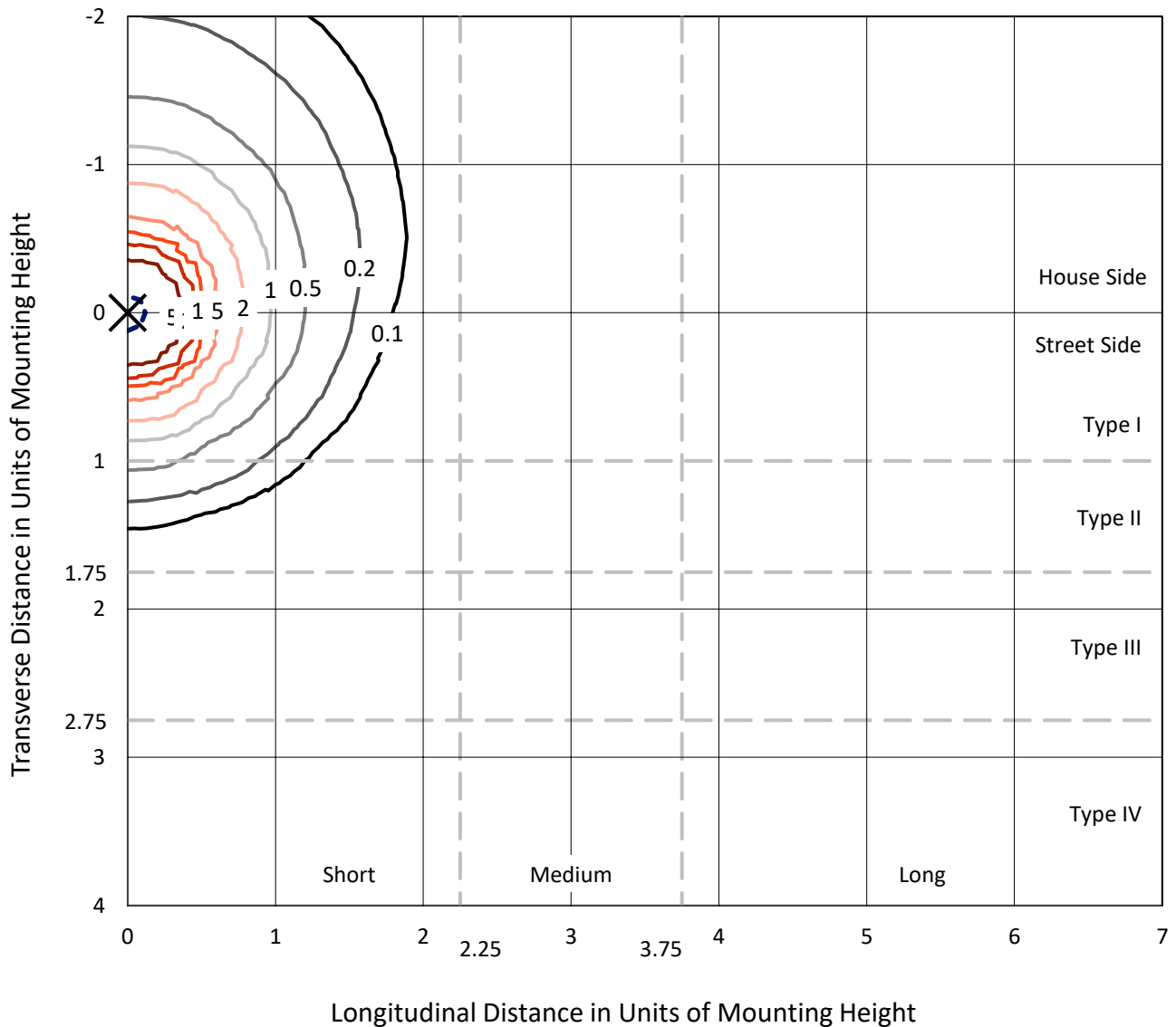
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

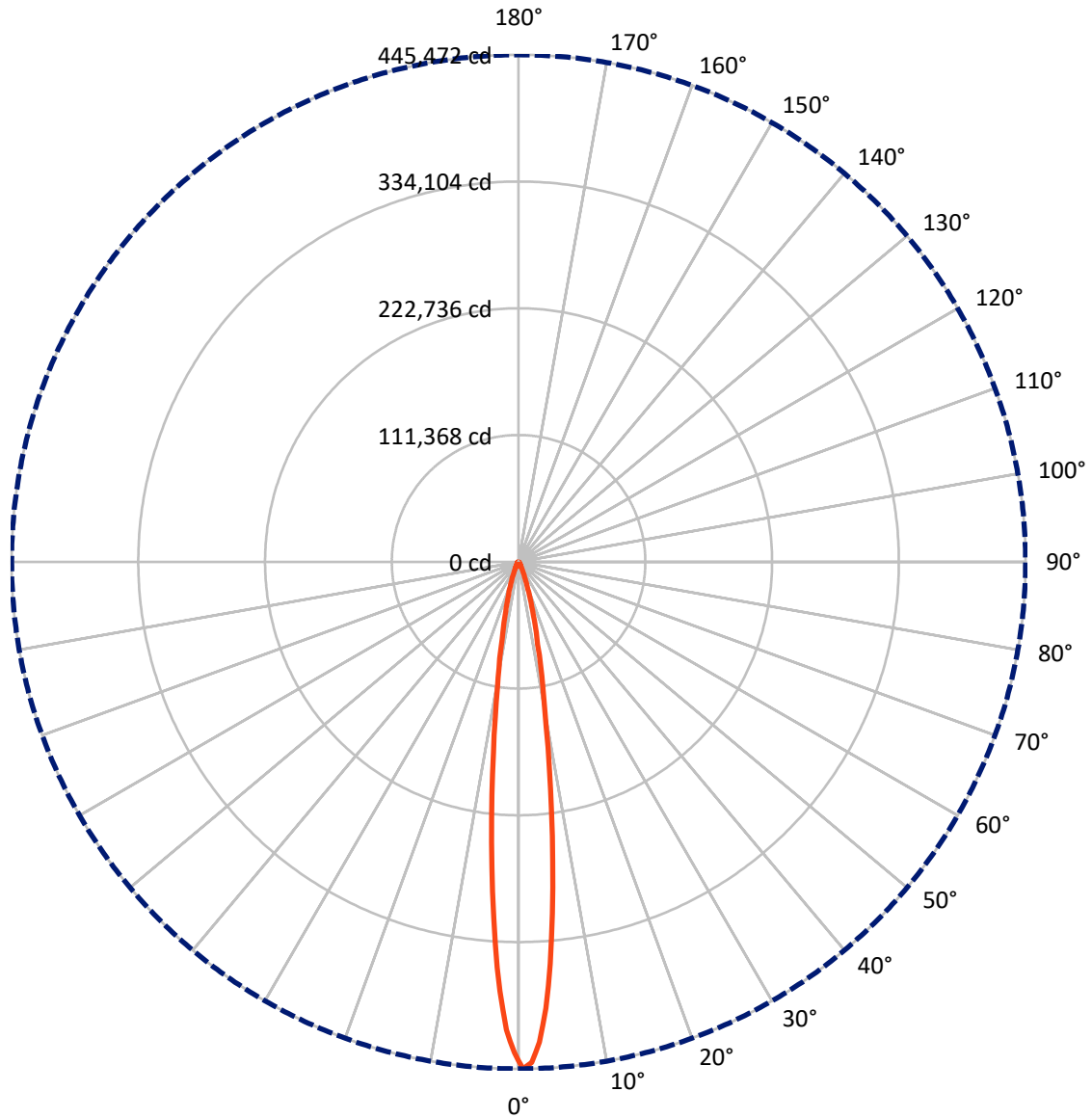
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1113.7 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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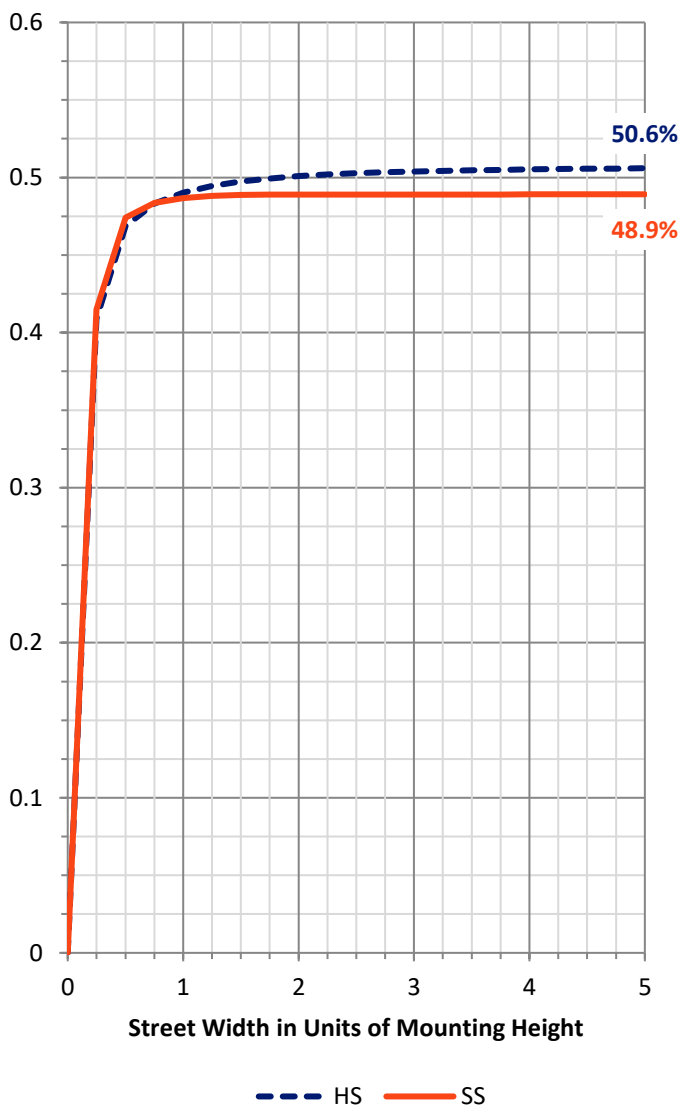
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22969.6	0.0	22969.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21877.0	0.0	21877.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	44846.6	0.0	44846.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22639.9	50.5
10°-20°	14494.0	32.3
20°-30°	4356.6	9.7
30°-40°	1418.5	3.2
40°-50°	825.3	1.8
50°-60°	548.2	1.2
60°-70°	330.0	0.7
70°-80°	169.6	0.4
80°-90°	64.4	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°	44846.6	100.0
0°-180°	44846.6	100.0

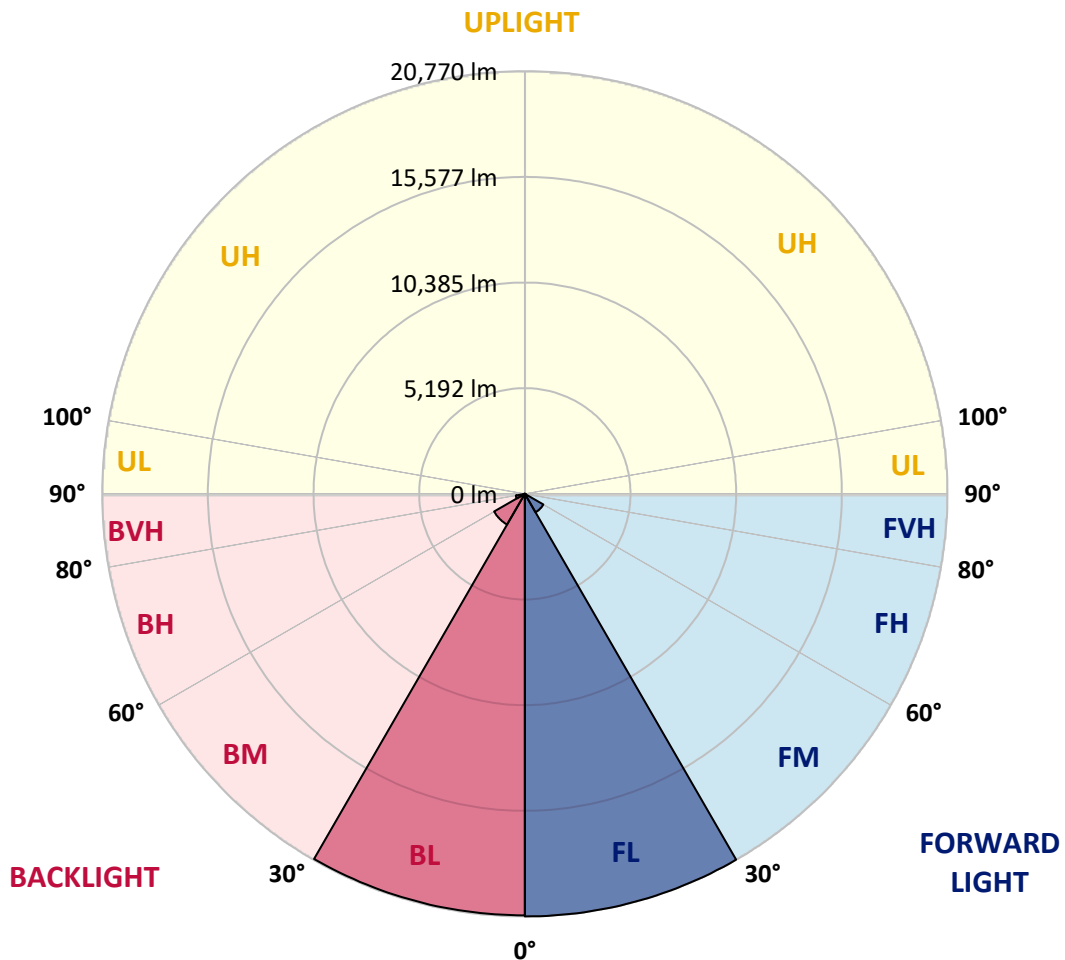


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20769.9	46.3			
FM (30°-60°)	1048.1	2.3			
FH (60°-80°)	49.3	0.1			G0/660
FVH (80°-90°)	9.7	0.0			G0/10
BL (0°-30°)	20720.6	46.2	B5		
BM (30°-60°)	1744.0	3.9	B2/2500		
BH (60°-80°)	450.3	1.0	B1/500		G0/660
BVH (80°-90°)	54.7	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°	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2
1°	440138.3	438795.0	435327.0	437793.7	439962.4	439332.3	439288.4	439053.9	438726.6	441295.9
2°	422544.3	421674.8	416546.1	418661.1	421743.2	419496.3	420903.1	419667.3	419691.7	422759.2
3°	392885.5	393359.3	385177.8	389021.9	393305.6	387859.4	389549.4	392724.3	389398.0	388396.7
4°	354337.0	350224.2	345754.9	349662.5	350771.3	347601.2	350717.6	354605.6	349984.9	350190.0
5°	310327.5	307289.4	301999.5	304412.4	301662.4	302663.7	307333.3	308935.5	305711.7	301652.7
6°	265077.4	262918.5	256304.9	259782.6	258805.7	258239.1	264134.7	259250.2	261008.7	258551.7
7°	220491.6	216457.0	213208.8	216540.1	216755.0	215050.3	222704.3	221815.3	218616.0	217873.5
8°	182680.7	178655.8	175905.8	178387.2	180008.8	177332.1	180932.0	183296.1	180795.2	181019.9
9°	147341.2	146633.0	142808.4	146051.7	147815.0	144947.8	148933.6	149788.4	147448.7	148586.8
10°	120979.5	120154.1	117101.2	118415.2	121336.1	117916.9	121741.5	122019.9	120154.1	120686.5
12.5°	74762.3	74430.2	74347.1	74537.6	74498.5	75104.2	76081.1	74967.5	74820.9	72979.5
15°	48322.5	48815.8	48307.8	49284.7	49426.4	49997.8	49401.9	48503.2	46788.7	45938.8
17.5°	30157.0	30787.1	31656.5	33087.7	34518.8	34684.9	33893.6	32838.6	32008.2	31099.7
20°	17349.8	17657.5	17525.6	19240.1	22942.5	23948.8	22927.9	21819.1	20817.8	19899.5
22.5°	10780.1	10667.8	10872.9	11449.3	12655.8	15767.2	14931.9	13823.2	13095.4	12338.3
25°	6608.7	6730.9	6652.7	6970.2	7512.4	8831.2	9021.7	8543.0	8171.8	7781.0
27.5°	4254.4	4254.4	4288.6	4464.4	4835.7	4791.7	5807.7	5436.5	5236.2	5045.7
30°	2955.1	2964.9	2964.9	3067.5	3150.5	3004.0	3267.7	3746.4	3653.6	3507.1
32.5°	2193.1	2222.5	2246.9	2300.6	2232.2	2075.9	2139.4	2696.2	2642.5	2588.8
35°	1670.5	1694.9	1753.5	1782.8	1685.2	1587.5	1528.9	1983.1	2007.5	1992.9
37.5°	1216.2	1230.9	1338.4	1450.7	1338.4	1250.4	1216.2	1524.0	1641.2	1626.5
40°	932.9	937.8	957.4	1084.4	1084.4	1016.0	1025.7	1138.1	1343.2	1343.2
42.5°	801.1	801.1	820.6	801.1	805.9	879.2	903.6	918.3	1138.1	1138.1
45°	693.6	693.6	703.4	654.5	605.7	757.1	776.6	781.5	957.4	981.8
47.5°	581.3	581.3	600.8	537.3	512.9	600.8	654.5	669.2	825.5	845.0
50°	429.8	434.7	493.3	439.6	454.3	464.0	566.6	576.4	698.5	742.4
52.5°	288.2	288.2	298.0	341.9	395.6	381.0	459.1	493.3	556.8	615.4
55°	234.5	234.5	229.6	219.8	293.1	317.5	337.0	410.3	454.3	527.5
57.5°	161.2	171.0	156.3	180.7	190.5	239.3	254.0	322.4	346.8	444.5
60°	19.5	24.4	34.2	131.9	127.0	161.2	190.5	254.0	283.3	341.9
62.5°	4.9	4.9	9.8	24.4	87.9	107.5	151.4	175.8	205.1	263.8
65°	0.0	0.0	4.9	9.8	19.5	58.6	78.2	102.6	146.5	185.6
67.5°	0.0	0.0	4.9	9.8	9.8	24.4	39.1	63.5	78.2	136.8
70°	0.0	0.0	4.9	9.8	9.8	19.5	24.4	29.3	53.7	73.3
72.5°	0.0	0.0	4.9	9.8	14.7	19.5	24.4	24.4	24.4	48.8
75°	0.0	0.0	4.9	9.8	14.7	19.5	24.4	24.4	19.5	19.5
77.5°	0.0	0.0	4.9	9.8	19.5	24.4	29.3	24.4	14.7	14.7
80°	0.0	0.0	4.9	14.7	24.4	34.2	39.1	29.3	14.7	9.8
82.5°	0.0	0.0	9.8	19.5	29.3	39.1	53.7	44.0	19.5	9.8
85°	0.0	0.0	4.9	14.7	29.3	39.1	78.2	53.7	24.4	4.9
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	29.3	19.5	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°
445472.2	0°	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2	445472.2
438331.0	1°	441393.6	441701.3	440695.1	442253.3	441706.2	438502.0	437442.0	436186.7
420956.8	2°	419667.3	421235.2	421313.4	423042.5	423018.1	419281.4	418123.8	420258.3
390428.6	3°	389246.6	391073.4	389427.3	392499.6	391576.5	387043.7	385866.5	388289.2
351811.7	4°	350761.5	350414.7	349848.1	348099.5	350253.5	347161.6	344831.7	348119.0
307035.4	5°	306419.9	305648.2	304544.3	304026.5	305628.6	303650.4	298858.7	303660.2
262996.6	6°	263319.0	259997.6	259836.4	259548.2	259709.4	254170.3	254502.5	258077.9
215318.9	7°	217595.1	218205.7	216960.1	218957.9	217433.9	213682.6	212236.8	216002.8
182006.6	8°	180736.6	179964.9	179012.4	181996.8	179354.3	176892.5	175207.4	178182.0
148772.4	9°	148494.0	147160.5	146193.4	146042.0	146452.2	141831.5	142769.3	145021.1
120979.5	10°	121023.5	118835.2	119367.6	119509.3	119059.9	116031.5	116060.8	116837.5
74200.6	12.5°	73936.8	72862.2	73130.9	73277.4	74190.8	73126.0	71621.6	70537.2
46783.8	15°	46471.2	45699.5	47277.2	48337.1	48122.2	47174.6	46466.3	45484.6
31099.7	17.5°	30811.5	31822.6	31827.5	32794.6	32892.3	31944.7	31397.6	30513.5
20226.8	20°	20153.5	20573.6	21447.9	22131.7	22527.4	21804.5	21149.9	20544.2
12611.8	22.5°	12611.8	13344.5	13891.5	14780.5	15142.0	14614.5	14150.4	13657.1
7873.8	25°	7741.9	8264.6	8718.8	9490.6	9983.9	9729.9	9305.0	8958.2
5084.8	27.5°	5162.9	5382.7	5607.4	6139.8	6652.7	6511.1	6340.1	6130.1
3585.2	30°	3639.0	3658.5	3897.8	4195.8	4537.7	4625.6	4547.5	4440.0
2632.8	32.5°	2681.6	2759.7	2872.1	3057.7	3287.3	3497.3	3458.2	3409.4
2012.4	35°	2071.0	2188.3	2281.1	2422.7	2544.8	2745.1	2779.3	2764.6
1655.8	37.5°	1690.0	1792.6	1885.4	1968.5	2071.0	2207.8	2315.3	2320.1
1367.7	40°	1401.9	1494.7	1616.8	1680.3	1753.5	1856.1	1988.0	1997.8
1157.6	42.5°	1182.1	1270.0	1392.1	1470.2	1524.0	1621.7	1753.5	1773.1
991.6	45°	1016.0	1069.7	1196.7	1289.5	1343.2	1406.7	1548.4	1567.9
854.8	47.5°	884.1	937.8	1016.0	1147.9	1196.7	1255.3	1367.7	1401.9
757.1	50°	776.6	830.4	898.7	1016.0	1089.2	1138.1	1230.9	1279.7
659.4	52.5°	688.7	742.4	815.7	908.5	991.6	1035.5	1123.4	1186.9
537.3	55°	576.4	669.2	722.9	805.9	918.3	957.4	1025.7	1108.8
468.9	57.5°	503.1	581.3	659.4	727.8	840.1	889.0	957.4	1035.5
371.2	60°	425.0	498.2	591.0	649.6	757.1	820.6	893.9	967.1
283.3	62.5°	337.0	434.7	498.2	581.3	683.8	766.9	825.5	898.7
219.8	65°	249.1	356.6	429.8	517.8	615.4	703.4	752.2	830.4
156.3	67.5°	180.7	278.4	366.3	449.4	542.2	630.1	678.9	747.3
97.7	70°	141.7	205.1	302.8	376.1	473.8	547.1	600.8	644.8
63.5	72.5°	83.0	156.3	244.2	327.3	415.2	464.0	503.1	542.2
29.3	75°	53.7	122.1	200.3	273.5	337.0	381.0	415.2	449.4
14.7	77.5°	34.2	87.9	161.2	229.6	258.9	312.6	341.9	361.5
9.8	80°	19.5	68.4	141.7	185.6	210.0	244.2	273.5	298.0
9.8	82.5°	14.7	58.6	117.2	156.3	156.3	195.4	210.0	210.0
4.9	85°	9.8	48.8	92.8	146.5	117.2	146.5	136.8	136.8
4.9	87.5°	9.8	34.2	44.0	63.5	53.7	63.5	63.5	73.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
445472.2
431214.3
411217.1
377528.6
336220.3
291009.3
247713.0
205760.0
169687.9
137987.4
111552.4
69877.8
44981.4
30293.7
20334.2
13393.3
8757.9
6007.9
4366.8
3370.3
2715.8
2286.0
1983.1
1758.4
1563.0
1406.7
1284.6
1186.9
1113.7
1040.4
986.7
932.9
845.0
752.2
659.4
551.9
449.4
351.7
268.6
195.4
131.9
73.3
0.0

(END OF REPORT)