

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: P637103

Luminaire Tested: **IFLD-M-SA4D-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637103
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30685.1 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

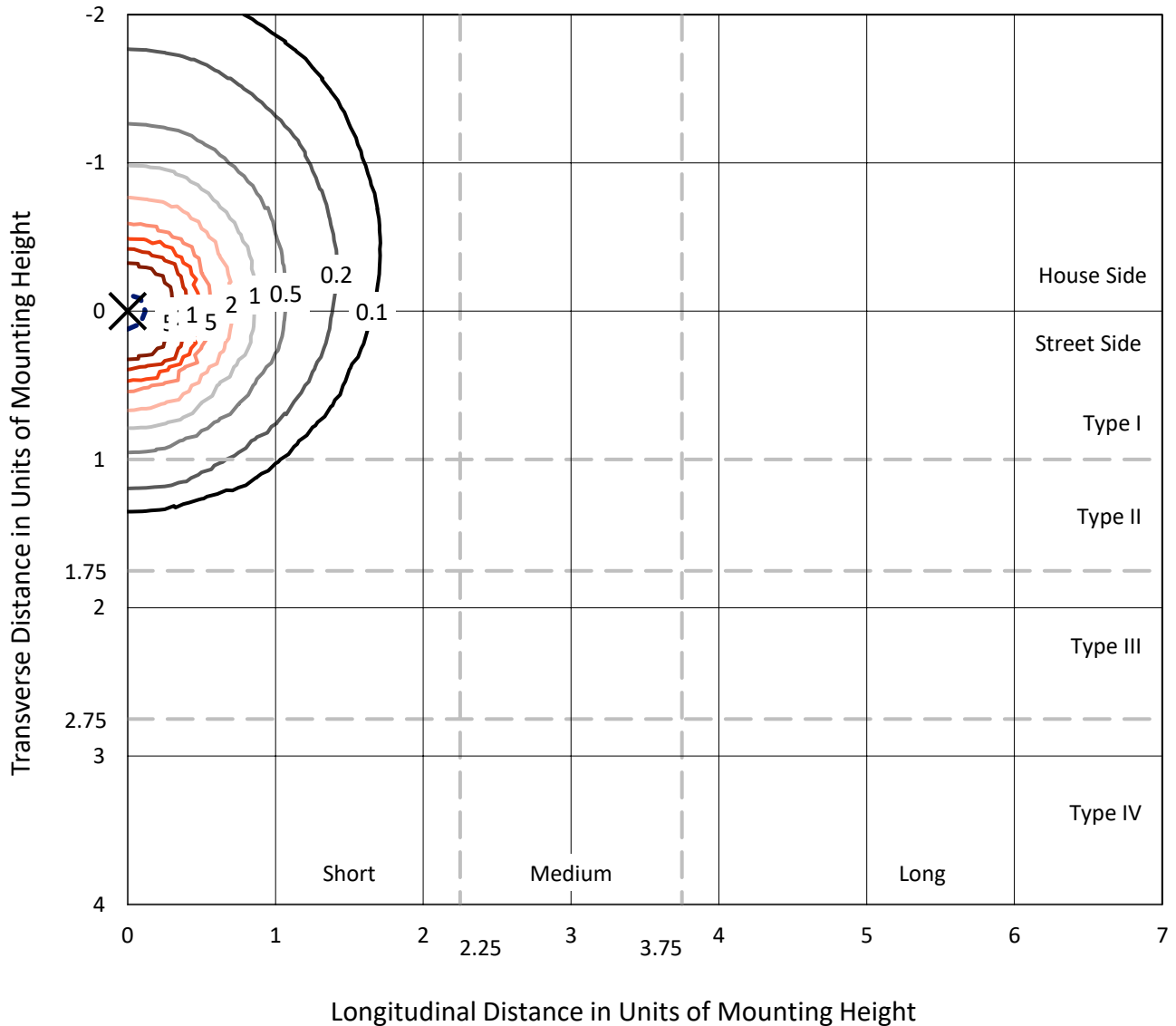
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

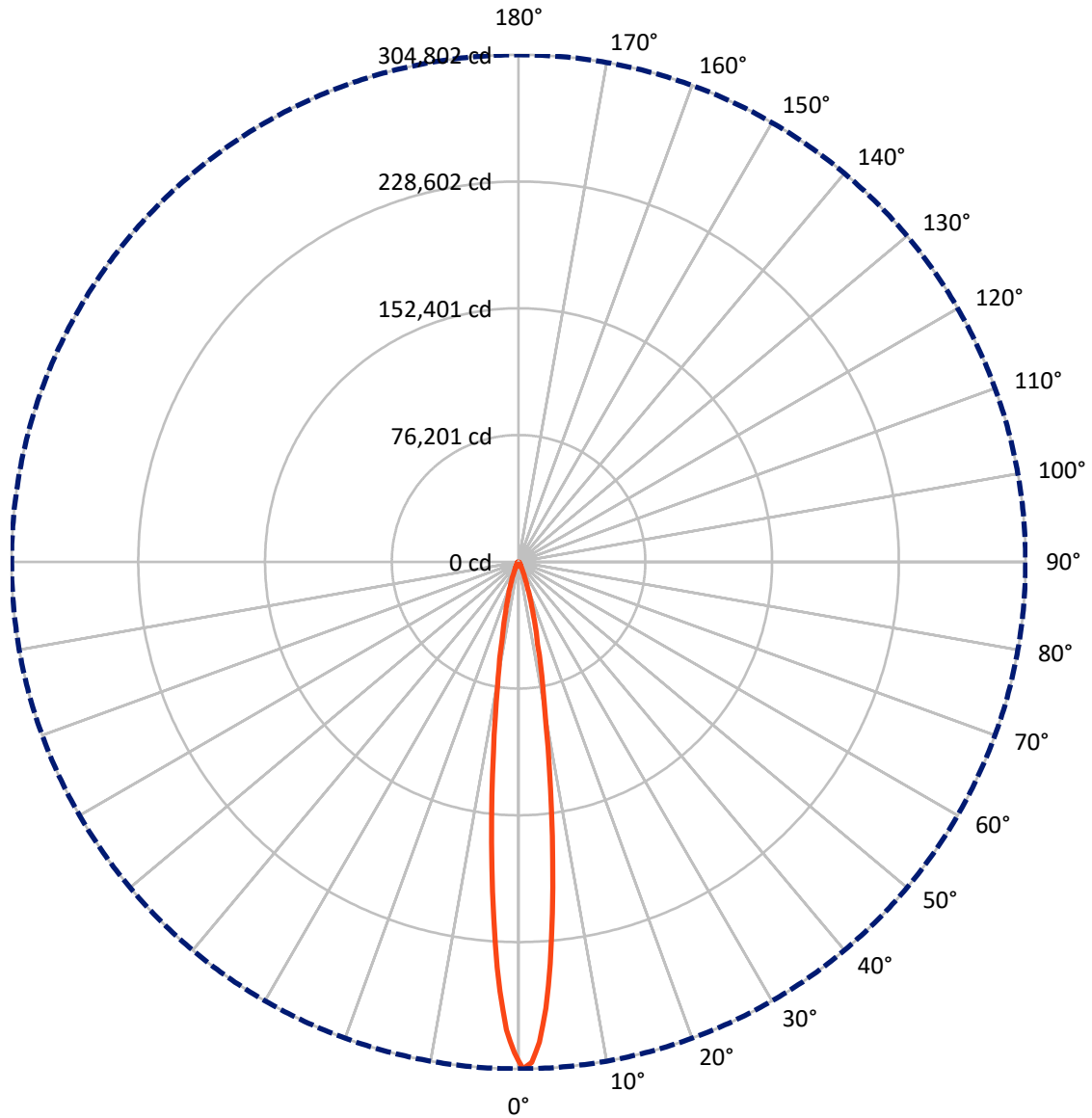
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 762 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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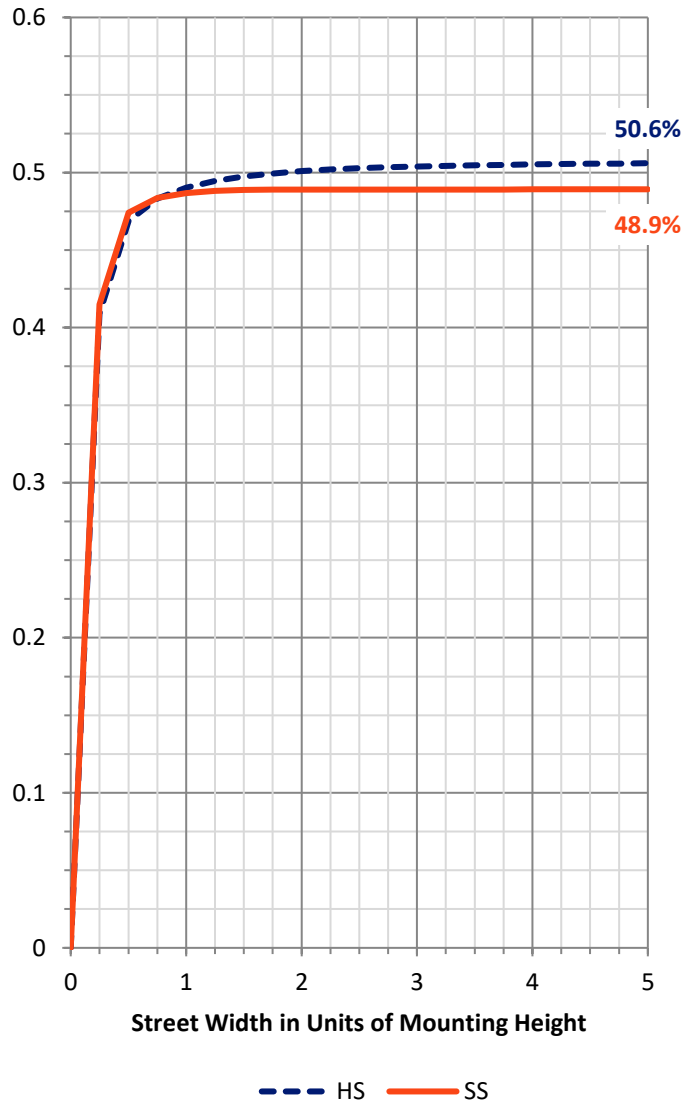
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15716.3	0.0	15716.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	14968.7	0.0	14968.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	30685.1	0.0	30685.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15490.7	50.5
10°-20°	9917.1	32.3
20°-30°	2980.9	9.7
30°-40°	970.6	3.2
40°-50°	564.7	1.8
50°-60°	375.1	1.2
60°-70°	225.8	0.7
70°-80°	116.1	0.4
80°-90°	44.1	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°	30685.1	100.0
0°-180°	30685.1	100.0

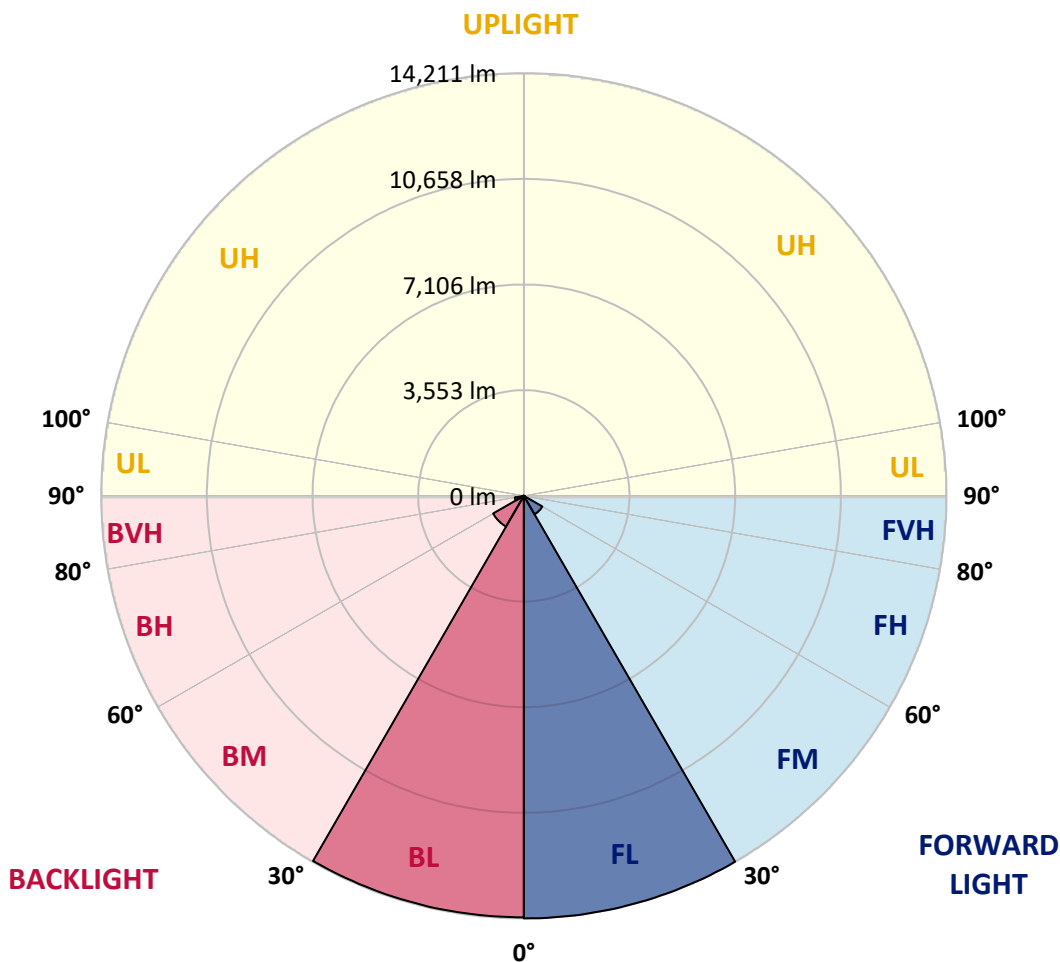


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	14211.2	46.3			
FM (30°-60°)	717.1	2.3			
FH (60°-80°)	33.8	0.1			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	14177.5	46.2	B5		
BM (30°-60°)	1193.3	3.9	B2/2500		
BH (60°-80°)	308.1	1.0	B1/500		G0/660
BVH (80°-90°)	37.4	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°	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2
1°	301152.7	300233.6	297860.7	299548.5	301032.4	300601.2	300571.2	300410.7	300186.8	301944.8
2°	289114.5	288519.6	285010.4	286457.5	288566.4	287029.0	287991.5	287146.0	287162.7	289261.5
3°	268821.3	269145.5	263547.4	266177.7	269108.7	265382.3	266538.6	268711.0	266435.0	265749.9
4°	242445.5	239631.4	236573.4	239247.1	240005.7	237836.7	239969.0	242629.3	239467.7	239608.0
5°	212333.2	210254.4	206634.9	208285.9	206404.3	207089.5	210284.5	211380.7	209174.9	206397.7
6°	181372.1	179894.9	175369.7	177749.2	177080.8	176693.1	180727.0	177384.9	178588.1	176907.0
7°	150865.4	148104.9	145882.4	148161.7	148308.7	147142.3	152379.4	151771.1	149582.1	149074.1
8°	124994.3	122240.4	120358.8	122056.6	123166.2	121334.7	123797.8	125415.4	123704.2	123858.0
9°	100814.2	100329.6	97712.8	99931.9	101138.4	99176.6	101903.8	102488.6	100887.8	101666.5
10°	82777.0	82212.2	80123.3	81022.4	83020.9	80681.5	83298.3	83488.8	82212.2	82576.4
12.5°	51154.1	50926.8	50870.0	51000.3	50973.6	51388.0	52056.4	51294.4	51194.2	49934.2
15°	33063.3	33400.9	33053.3	33721.7	33818.6	34209.7	33801.9	33187.0	32013.9	31432.4
17.5°	20634.1	21065.2	21660.1	22639.3	23618.6	23732.2	23190.8	22468.9	21900.7	21279.1
20°	11871.1	12081.7	11991.4	13164.5	15697.8	16386.3	15687.8	14929.1	14244.0	13615.7
22.5°	7376.0	7299.1	7439.5	7833.9	8659.4	10788.3	10216.8	9458.1	8960.2	8442.1
25°	4521.9	4605.4	4551.9	4769.2	5140.1	6042.5	6172.8	5845.3	5591.3	5324.0
27.5°	2911.0	2911.0	2934.4	3054.7	3308.7	3278.6	3973.7	3719.7	3582.7	3452.4
30°	2022.0	2028.7	2028.7	2098.8	2155.7	2055.4	2235.9	2563.4	2499.9	2399.6
32.5°	1500.6	1520.7	1537.4	1574.1	1527.3	1420.4	1463.8	1844.8	1808.1	1771.3
35°	1143.0	1159.7	1199.8	1219.9	1153.0	1086.2	1046.1	1356.9	1373.6	1363.6
37.5°	832.2	842.2	915.7	992.6	915.7	855.6	832.2	1042.7	1122.9	1112.9
40°	638.3	641.7	655.1	741.9	741.9	695.2	701.8	778.7	919.1	919.1
42.5°	548.1	548.1	561.5	548.1	551.4	601.6	618.3	628.3	778.7	778.7
45°	474.6	474.6	481.3	447.8	414.4	518.0	531.4	534.7	655.1	671.8
47.5°	397.7	397.7	411.1	367.6	350.9	411.1	447.8	457.9	564.8	578.2
50°	294.1	297.4	337.6	300.8	310.8	317.5	387.7	394.4	477.9	508.0
52.5°	197.2	197.2	203.9	233.9	270.7	260.7	314.2	337.6	381.0	421.1
55°	160.4	160.4	157.1	150.4	200.5	217.2	230.6	280.7	310.8	360.9
57.5°	110.3	117.0	106.9	123.7	130.3	163.8	173.8	220.6	237.3	304.1
60°	13.4	16.7	23.4	90.2	86.9	110.3	130.3	173.8	193.8	233.9
62.5°	3.3	3.3	6.7	16.7	60.2	73.5	103.6	120.3	140.4	180.5
65°	0.0	0.0	3.3	6.7	13.4	40.1	53.5	70.2	100.3	127.0
67.5°	0.0	0.0	3.3	6.7	6.7	16.7	26.7	43.4	53.5	93.6
70°	0.0	0.0	3.3	6.7	6.7	13.4	16.7	20.1	36.8	50.1
72.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	16.7	16.7	33.4
75°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	16.7	13.4	13.4
77.5°	0.0	0.0	3.3	6.7	13.4	16.7	20.1	16.7	10.0	10.0
80°	0.0	0.0	3.3	10.0	16.7	23.4	26.7	20.1	10.0	6.7
82.5°	0.0	0.0	6.7	13.4	20.1	26.7	36.8	30.1	13.4	6.7
85°	0.0	0.0	3.3	10.0	20.1	26.7	53.5	36.8	16.7	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.7	20.1	13.4	6.7	3.3
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°
304802.2	0°	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2	304802.2
299916.1	1°	302011.6	302222.1	301533.7	302599.8	302225.5	300033.1	299307.8	298448.9	297212.3
288028.3	2°	287146.0	288218.8	288272.3	289455.4	289438.6	286881.9	286089.9	287550.4	284699.6
267140.2	3°	266331.4	267581.4	266455.1	268557.2	267925.6	264824.1	264018.7	265676.4	263604.3
240717.6	4°	239999.1	239761.8	239374.1	238177.6	239651.5	237535.9	235941.8	238191.0	233759.4
210080.6	5°	209659.5	209131.5	208376.2	208021.9	209118.1	207764.6	204486.0	207771.3	199867.2
179948.3	6°	180168.9	177896.3	177786.0	177588.8	177699.1	173909.2	174136.4	176582.8	170005.6
147326.2	7°	148883.6	149301.3	148449.1	149816.0	148773.3	146206.6	145217.3	147794.0	143145.2
124533.1	8°	123664.1	123136.1	122484.4	124526.4	122718.3	121033.9	119880.9	121916.2	118463.8
101793.5	9°	101603.0	100690.6	100028.8	99925.2	100206.0	97044.4	97686.0	99226.7	97148.0
82777.0	10°	82807.0	81309.8	81674.1	81771.0	81463.5	79391.4	79411.5	79942.9	77443.0
50769.7	12.5°	50589.3	49854.0	50037.8	50138.1	50763.1	50034.5	49005.1	48263.2	47888.9
32010.6	15°	31796.7	31268.6	32348.1	33073.4	32926.3	32277.9	31793.3	31121.6	30580.2
21279.1	17.5°	21081.9	21773.7	21777.1	22438.8	22505.7	21857.3	21483.0	20878.1	20904.8
13839.6	20°	13789.5	14076.9	14675.1	15143.0	15413.7	14919.1	14471.3	14056.8	13883.1
8629.3	22.5°	8629.3	9130.6	9504.9	10113.2	10360.5	9999.5	9682.0	9344.5	9137.3
5387.5	25°	5297.2	5654.8	5965.6	6493.7	6831.2	6657.4	6366.7	6129.4	6019.1
3479.1	27.5°	3532.6	3683.0	3836.7	4201.0	4551.9	4455.0	4338.0	4194.3	4144.2
2453.1	30°	2489.9	2503.2	2667.0	2870.9	3104.8	3165.0	3111.5	3038.0	2981.1
1801.4	32.5°	1834.8	1888.3	1965.2	2092.2	2249.2	2392.9	2366.2	2332.8	2306.0
1376.9	35°	1417.0	1497.3	1560.8	1657.7	1741.2	1878.3	1901.7	1891.6	1871.6
1133.0	37.5°	1156.4	1226.5	1290.0	1346.9	1417.0	1510.6	1584.2	1587.5	1567.4
935.8	40°	959.2	1022.7	1106.2	1149.7	1199.8	1270.0	1360.2	1366.9	1360.2
792.1	42.5°	808.8	868.9	952.5	1006.0	1042.7	1109.6	1199.8	1213.2	1199.8
678.4	45°	695.2	731.9	818.8	882.3	919.1	962.5	1059.4	1072.8	1069.5
584.9	47.5°	604.9	641.7	695.2	785.4	818.8	858.9	935.8	959.2	959.2
518.0	50°	531.4	568.2	614.9	695.2	745.3	778.7	842.2	875.6	875.6
451.2	52.5°	471.2	508.0	558.1	621.6	678.4	708.5	768.7	812.1	812.1
367.6	55°	394.4	457.9	494.6	551.4	628.3	655.1	701.8	758.7	758.7
320.8	57.5°	344.2	397.7	451.2	498.0	574.8	608.3	655.1	708.5	715.2
254.0	60°	290.8	340.9	404.4	444.5	518.0	561.5	611.6	661.7	675.1
193.8	62.5°	230.6	297.4	340.9	397.7	467.9	524.7	564.8	614.9	635.0
150.4	65°	170.4	244.0	294.1	354.3	421.1	481.3	514.7	568.2	581.5
106.9	67.5°	123.7	190.5	250.7	307.5	371.0	431.1	464.6	511.3	521.4
66.8	70°	96.9	140.4	207.2	257.3	324.2	374.3	411.1	441.2	451.2
43.4	72.5°	56.8	106.9	167.1	223.9	284.1	317.5	344.2	371.0	377.7
20.1	75°	36.8	83.6	137.0	187.2	230.6	260.7	284.1	307.5	310.8
10.0	77.5°	23.4	60.2	110.3	157.1	177.1	213.9	233.9	247.3	240.6
6.7	80°	13.4	46.8	96.9	127.0	143.7	167.1	187.2	203.9	187.2
6.7	82.5°	10.0	40.1	80.2	106.9	106.9	133.7	143.7	143.7	137.0
3.3	85°	6.7	33.4	63.5	100.3	80.2	100.3	93.6	93.6	93.6
3.3	87.5°	6.7	23.4	30.1	43.4	36.8	43.4	43.4	50.1	50.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
304802.2
295046.7
281364.1
258313.7
230049.6
199115.2
169490.9
140785.7
116104.3
94414.1
76326.7
47812.0
30777.3
20727.7
13913.1
9164.0
5992.4
4110.8
2987.8
2306.0
1858.2
1564.1
1356.9
1203.2
1069.5
962.5
879.0
812.1
762.0
711.9
675.1
638.3
578.2
514.7
451.2
377.7
307.5
240.6
183.8
133.7
90.2
50.1
0.0

(END OF REPORT)