

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: P637097

Luminaire Tested: **IFLD-S-SA6C-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637097
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-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: 40756.4 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

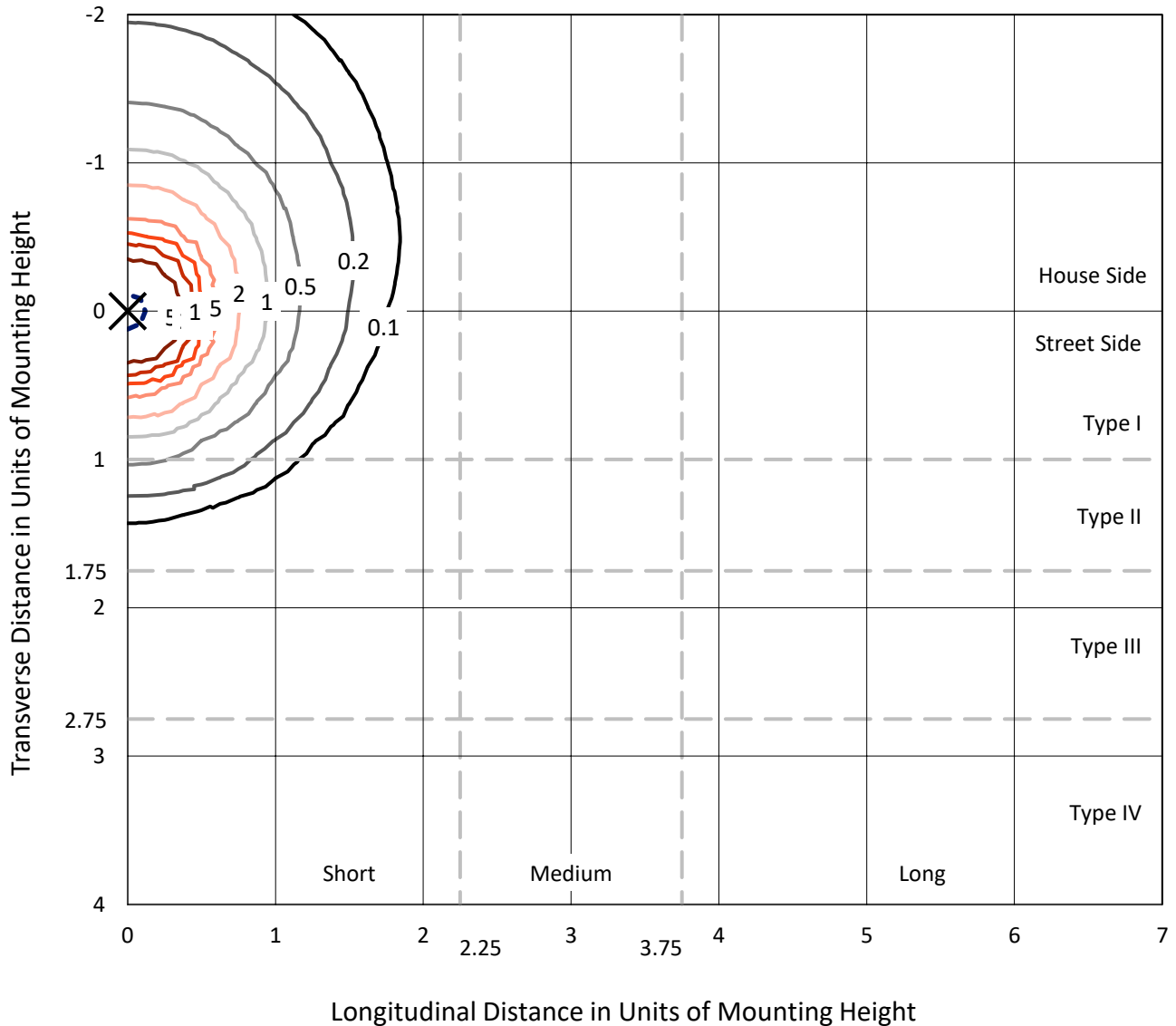
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

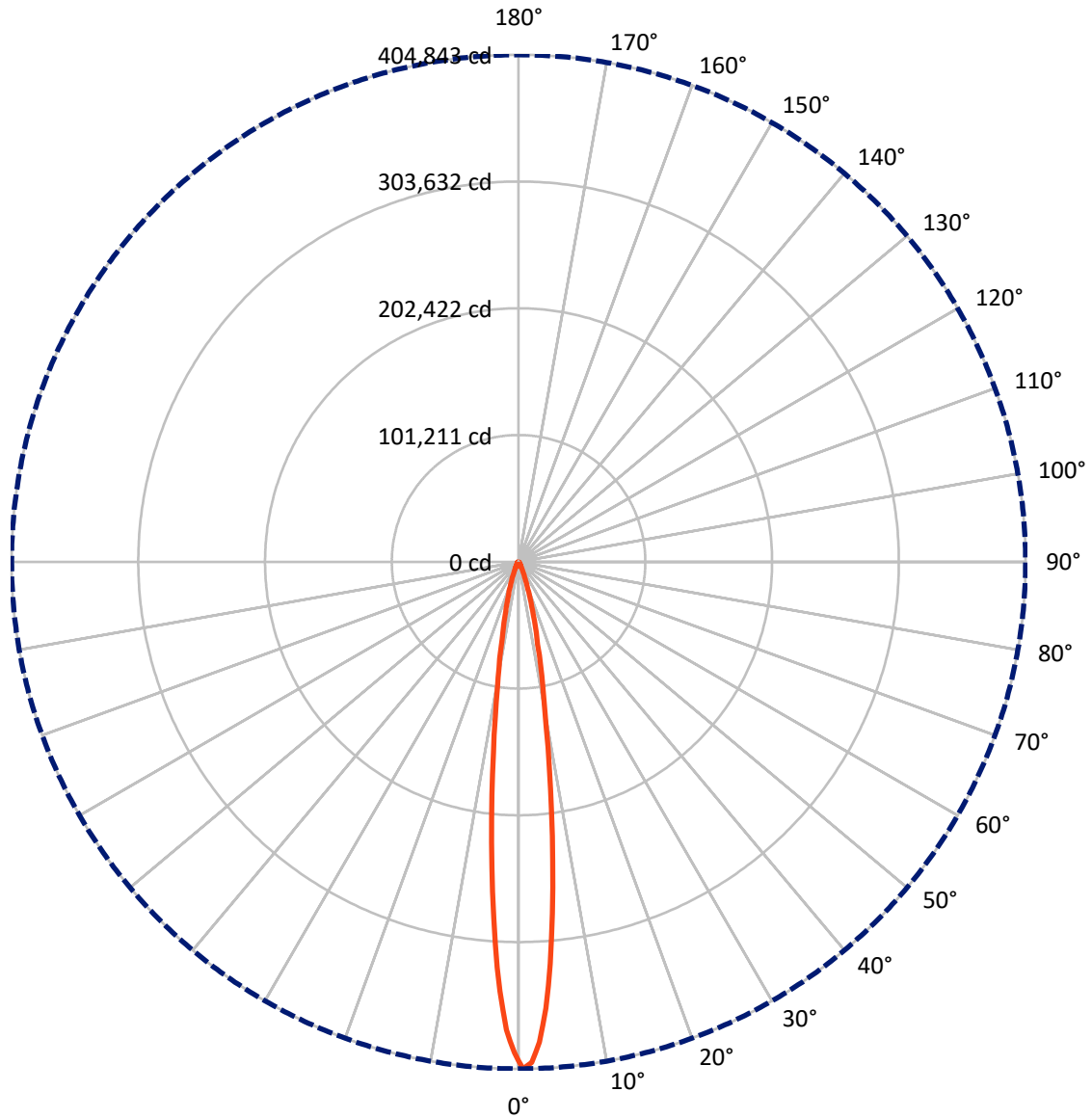
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1012.1 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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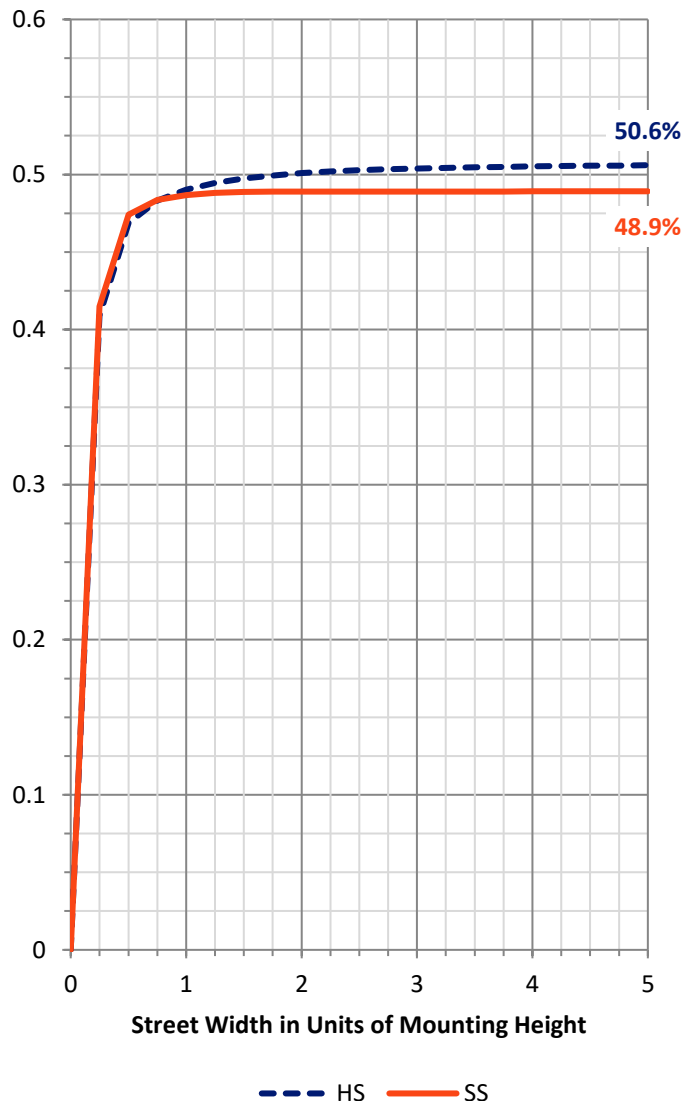
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20874.7	0.0	20874.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19881.7	0.0	19881.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	40756.4	0.0	40756.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20575.1	50.5
10°-20°	13172.1	32.3
20°-30°	3959.3	9.7
30°-40°	1289.1	3.2
40°-50°	750.1	1.8
50°-60°	498.2	1.2
60°-70°	299.9	0.7
70°-80°	154.1	0.4
80°-90°	58.6	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°	40756.4	100.0
0°-180°	40756.4	100.0

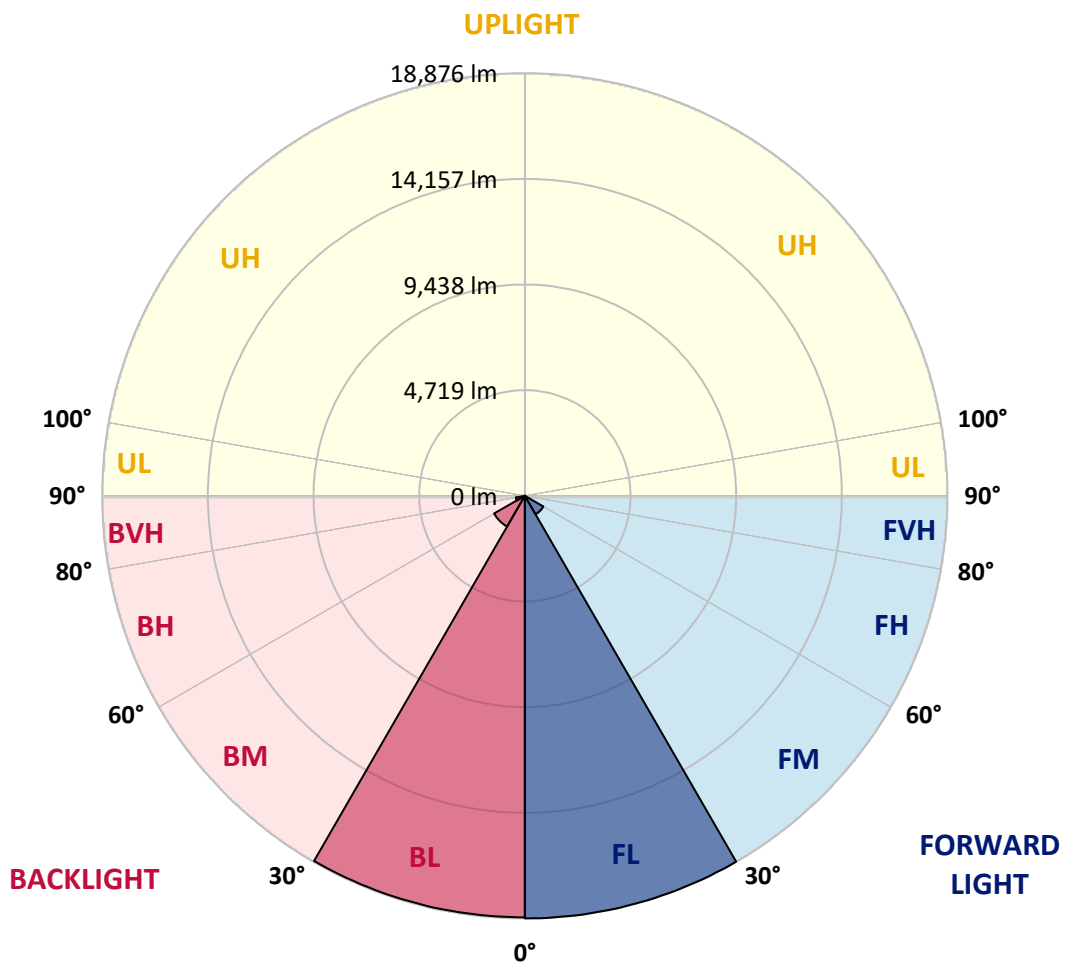


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18875.6	46.3			
FM (30°-60°)	952.5	2.3			
FH (60°-80°)	44.8	0.1			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	18830.8	46.2	B5		
BM (30°-60°)	1584.9	3.9	B2/2500		
BH (60°-80°)	409.2	1.0	B1/500		G0/660
BVH (80°-90°)	49.7	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°	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3
1°	399995.9	398775.1	395623.4	397865.1	399836.1	399263.4	399223.5	399010.4	398713.0	401047.9
2°	384006.5	383216.4	378555.4	380477.5	383278.5	381236.5	382515.0	381391.9	381414.1	384201.8
3°	357052.8	357483.3	350048.0	353541.5	357434.5	352485.0	354020.9	356906.3	353883.3	352973.3
4°	322020.0	318282.3	314220.6	317771.8	318779.5	315898.6	318730.7	322264.1	318064.8	318251.3
5°	282024.4	279263.3	274455.9	276648.7	274149.6	275059.6	279303.3	280759.3	277829.5	274140.7
6°	240901.3	238939.3	232928.8	236089.4	235201.6	234686.7	240044.6	235605.5	237203.6	234970.8
7°	200381.9	196715.3	193763.3	196790.7	196986.1	195436.8	202392.8	201584.9	198677.3	198002.6
8°	166019.4	162361.7	159862.5	162117.5	163591.3	161158.7	164430.3	166578.7	164306.0	164510.2
9°	133903.1	133259.4	129783.7	132731.2	134333.7	131728.0	135350.2	136127.1	134000.8	135035.1
10°	109945.7	109195.5	106421.1	107615.2	110269.8	107162.4	110638.2	110891.2	109195.5	109679.4
12.5°	67943.7	67641.8	67566.4	67739.5	67704.0	68254.4	69142.2	68130.1	67996.9	66323.4
15°	43915.2	44363.6	43901.9	44789.7	44918.5	45437.8	44896.3	44079.5	42521.4	41749.0
17.5°	27406.5	27979.2	28769.3	30069.9	31370.6	31521.5	30802.4	29843.5	29088.9	28263.3
20°	15767.4	16047.1	15927.2	17485.3	20850.1	21764.5	20836.8	19829.1	18919.1	18084.6
22.5°	9796.9	9694.8	9881.3	10405.1	11501.5	14329.2	13570.1	12562.4	11901.0	11213.0
25°	6006.0	6117.0	6045.9	6334.5	6827.2	8025.8	8198.9	7763.8	7426.5	7071.4
27.5°	3866.4	3866.4	3897.5	4057.3	4394.6	4354.7	5278.0	4940.6	4758.6	4585.5
30°	2685.6	2694.5	2694.5	2787.7	2863.2	2730.0	2969.7	3404.7	3320.4	3187.2
32.5°	1993.1	2019.8	2042.0	2090.8	2028.6	1886.6	1944.3	2450.3	2401.5	2352.7
35°	1518.1	1540.3	1593.6	1620.2	1531.5	1442.7	1389.4	1802.2	1824.4	1811.1
37.5°	1105.3	1118.6	1216.3	1318.4	1216.3	1136.4	1105.3	1385.0	1491.5	1478.2
40°	847.9	852.3	870.0	985.5	985.5	923.3	932.2	1034.3	1220.7	1220.7
42.5°	728.0	728.0	745.8	728.0	732.4	799.0	821.2	834.5	1034.3	1034.3
45°	630.3	630.3	639.2	594.8	550.4	688.0	705.8	710.2	870.0	892.2
47.5°	528.2	528.2	546.0	488.3	466.1	546.0	594.8	608.1	750.2	768.0
50°	390.6	395.1	448.3	399.5	412.8	421.7	514.9	523.8	634.8	674.7
52.5°	261.9	261.9	270.8	310.7	359.6	346.2	417.3	448.3	506.0	559.3
55°	213.1	213.1	208.6	199.8	266.3	288.5	306.3	372.9	412.8	479.4
57.5°	146.5	155.4	142.0	164.2	173.1	217.5	230.8	293.0	315.2	404.0
60°	17.8	22.2	31.1	119.9	115.4	146.5	173.1	230.8	257.5	310.7
62.5°	4.4	4.4	8.9	22.2	79.9	97.7	137.6	159.8	186.4	239.7
65°	0.0	0.0	4.4	8.9	17.8	53.3	71.0	93.2	133.2	168.7
67.5°	0.0	0.0	4.4	8.9	8.9	22.2	35.5	57.7	71.0	124.3
70°	0.0	0.0	4.4	8.9	8.9	17.8	22.2	26.6	48.8	66.6
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	22.2	22.2	44.4
75°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	22.2	17.8	17.8
77.5°	0.0	0.0	4.4	8.9	17.8	22.2	26.6	22.2	13.3	13.3
80°	0.0	0.0	4.4	13.3	22.2	31.1	35.5	26.6	13.3	8.9
82.5°	0.0	0.0	8.9	17.8	26.6	35.5	48.8	40.0	17.8	8.9
85°	0.0	0.0	4.4	13.3	26.6	35.5	71.0	48.8	22.2	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	26.6	17.8	8.9	4.4
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°
404843.3	0°	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3	404843.3
398353.4	1°	401136.7	401416.3	400501.9	401918.0	401420.8	398508.8	397545.5	396404.7
382563.8	2°	381391.9	382816.8	382887.9	384459.3	384437.1	381041.2	379989.2	381929.0
354819.9	3°	353745.7	355405.9	353909.9	356702.1	355863.1	351743.7	350673.9	352875.6
319725.0	4°	318770.6	318455.5	317940.5	316351.4	318309.0	315499.1	313381.7	316369.1
279032.5	5°	278473.2	277771.8	276768.6	276298.1	277754.1	275956.3	271601.6	275965.1
239010.3	6°	239303.3	236284.7	236138.2	235876.3	236022.8	230989.0	231290.8	234540.2
195681.0	7°	197749.6	198304.4	197172.5	198988.1	197603.1	194193.9	192880.0	196302.4
165406.8	8°	164252.7	163551.3	162685.7	165398.0	162996.5	160759.2	159227.7	161931.1
135203.7	9°	134950.7	133738.9	132859.9	132722.3	133095.2	128895.9	129748.2	131794.6
109945.7	10°	109985.7	107997.0	108480.8	108609.6	108201.2	105449.0	105475.6	106181.4
67433.2	12.5°	67193.5	66216.9	66461.0	66594.2	67424.3	66456.6	65089.4	64103.9
42517.0	15°	42232.9	41531.5	42965.3	43928.6	43733.2	42872.1	42228.4	41336.2
28263.3	17.5°	28001.4	28920.2	28924.7	29803.6	29892.4	29031.2	28534.0	27730.6
18382.0	20°	18315.4	18697.2	19491.7	20113.2	20472.8	19815.8	19221.0	18670.5
11461.6	22.5°	11461.6	12127.4	12624.6	13432.5	13761.0	13281.6	12859.8	12411.5
7155.7	25°	7035.9	7510.8	7923.7	8625.0	9073.4	8842.5	8456.3	8141.2
4621.0	27.5°	4692.0	4891.8	5096.0	5579.9	6045.9	5917.2	5761.9	5571.0
3258.2	30°	3307.1	3324.8	3542.3	3813.1	4123.9	4203.8	4132.7	4035.1
2392.6	32.5°	2437.0	2508.0	2610.1	2778.8	2987.5	3178.3	3142.8	3098.4
1828.9	35°	1882.1	1988.7	2073.0	2201.8	2312.7	2494.7	2525.8	2512.5
1504.8	37.5°	1535.9	1629.1	1713.5	1788.9	1882.1	2006.4	2104.1	2108.5
1242.9	40°	1274.0	1358.3	1469.3	1527.0	1593.6	1686.8	1806.7	1815.6
1052.0	42.5°	1074.2	1154.1	1265.1	1336.1	1385.0	1473.8	1593.6	1611.4
901.1	45°	923.3	972.1	1087.6	1171.9	1220.7	1278.4	1407.2	1424.9
776.8	47.5°	803.5	852.3	923.3	1043.2	1087.6	1140.8	1242.9	1274.0
688.0	50°	705.8	754.6	816.8	923.3	989.9	1034.3	1118.6	1163.0
599.3	52.5°	625.9	674.7	741.3	825.7	901.1	941.1	1021.0	1078.7
488.3	55°	523.8	608.1	657.0	732.4	834.5	870.0	932.2	1007.7
426.1	57.5°	457.2	528.2	599.3	661.4	763.5	807.9	870.0	941.1
337.4	60°	386.2	452.8	537.1	590.4	688.0	745.8	812.3	878.9
257.5	62.5°	306.3	395.1	452.8	528.2	621.5	696.9	750.2	816.8
199.8	65°	226.4	324.0	390.6	470.5	559.3	639.2	683.6	754.6
142.0	67.5°	164.2	253.0	332.9	408.4	492.7	572.6	617.0	679.2
88.8	70°	128.7	186.4	275.2	341.8	430.6	497.2	546.0	586.0
57.7	72.5°	75.5	142.0	222.0	297.4	377.3	421.7	457.2	492.7
26.6	75°	48.8	111.0	182.0	248.6	306.3	346.2	377.3	408.4
13.3	77.5°	31.1	79.9	146.5	208.6	235.3	284.1	310.7	328.5
8.9	80°	17.8	62.1	128.7	168.7	190.9	222.0	248.6	270.8
8.9	82.5°	13.3	53.3	106.5	142.0	142.0	177.6	190.9	190.9
4.4	85°	8.9	44.4	84.3	133.2	106.5	133.2	124.3	124.3
4.4	87.5°	8.9	31.1	40.0	57.7	48.8	57.7	57.7	66.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
404843.3
391885.8
373712.4
343096.5
305555.7
264468.1
225120.6
186993.8
154211.6
125402.4
101378.4
63504.7
40879.0
27530.8
18479.6
12171.8
7959.2
5460.0
3968.5
3062.9
2468.1
2077.5
1802.2
1598.0
1420.5
1278.4
1167.5
1078.7
1012.1
945.5
896.7
847.9
768.0
683.6
599.3
501.6
408.4
319.6
244.1
177.6
119.9
66.6
0.0

(END OF REPORT)