

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: P637222

Luminaire Tested: **IFLD-L-SA7B-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637222
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26034 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

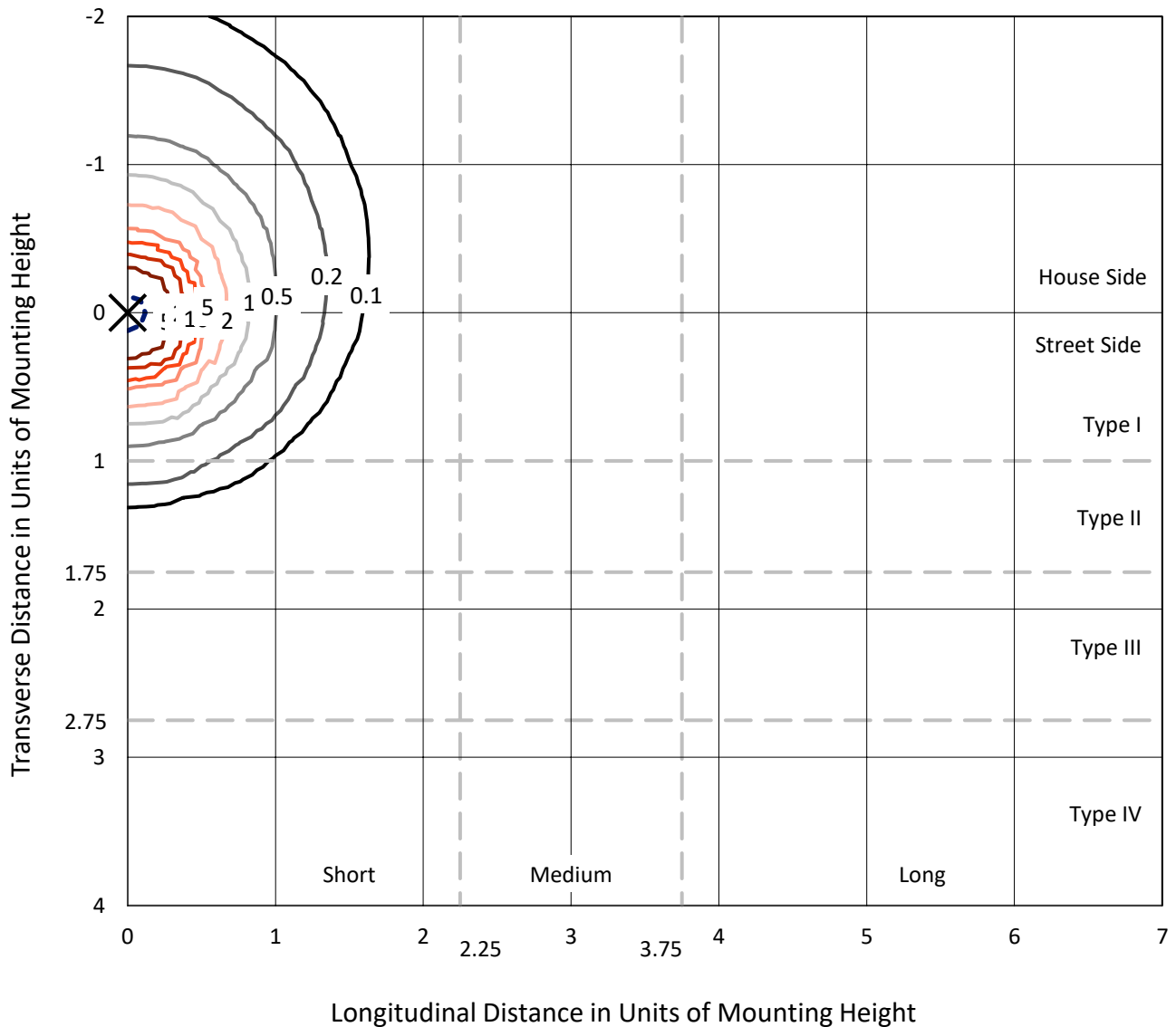
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

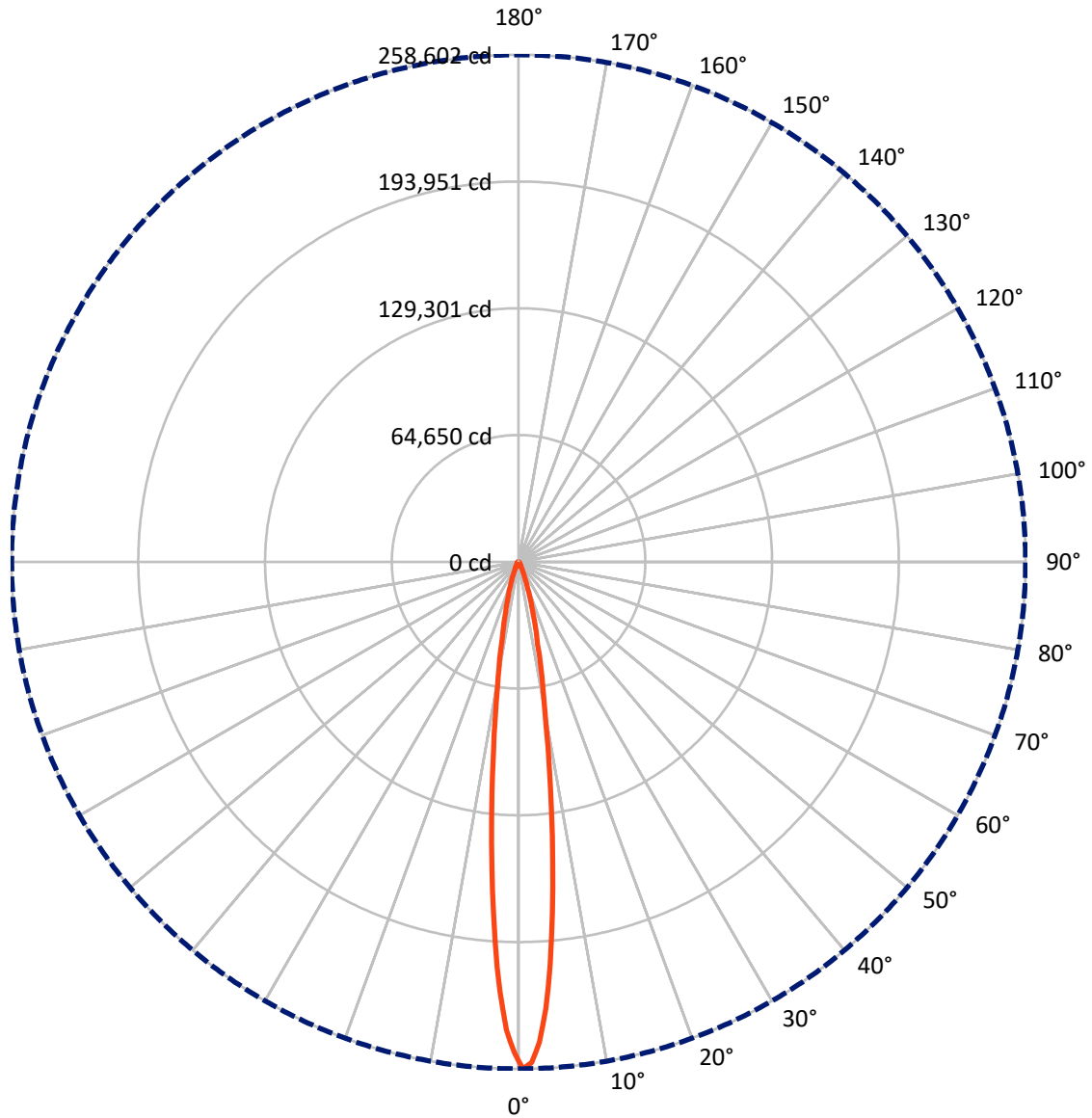
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 646.5 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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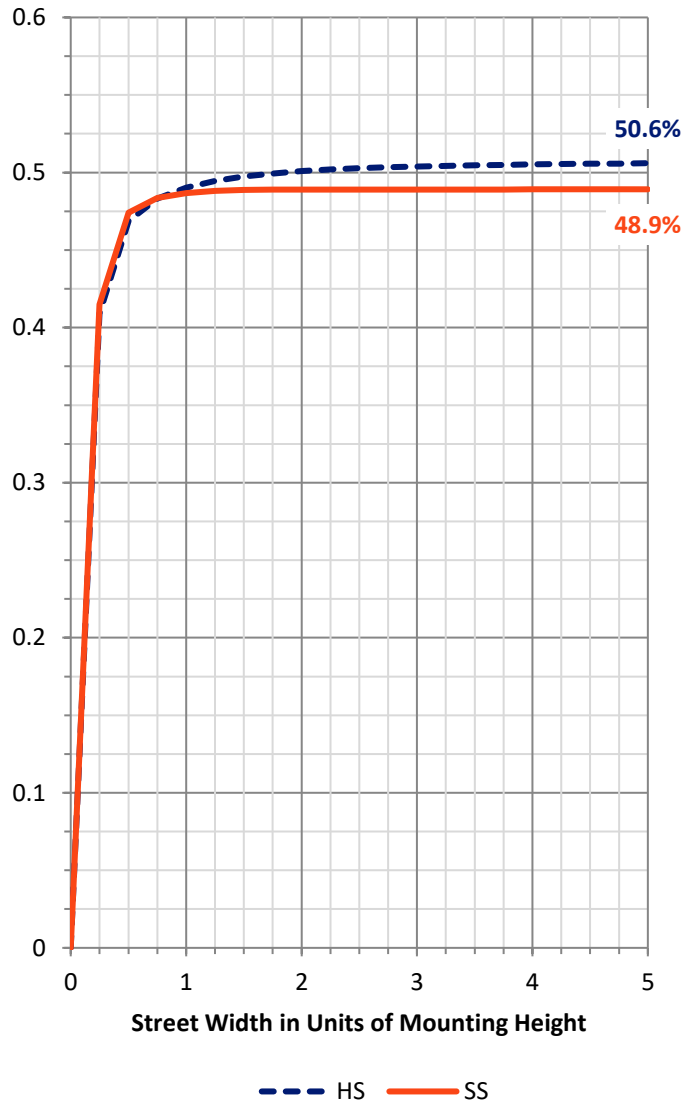
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13334.1	0.0	13334.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	12699.8	0.0	12699.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	26034.0	0.0	26034.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13142.7	50.5
10°-20°	8413.9	32.3
20°-30°	2529.1	9.7
30°-40°	823.5	3.2
40°-50°	479.1	1.8
50°-60°	318.2	1.2
60°-70°	191.6	0.7
70°-80°	98.5	0.4
80°-90°	37.4	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°	26034.0	100.0
0°-180°	26034.0	100.0

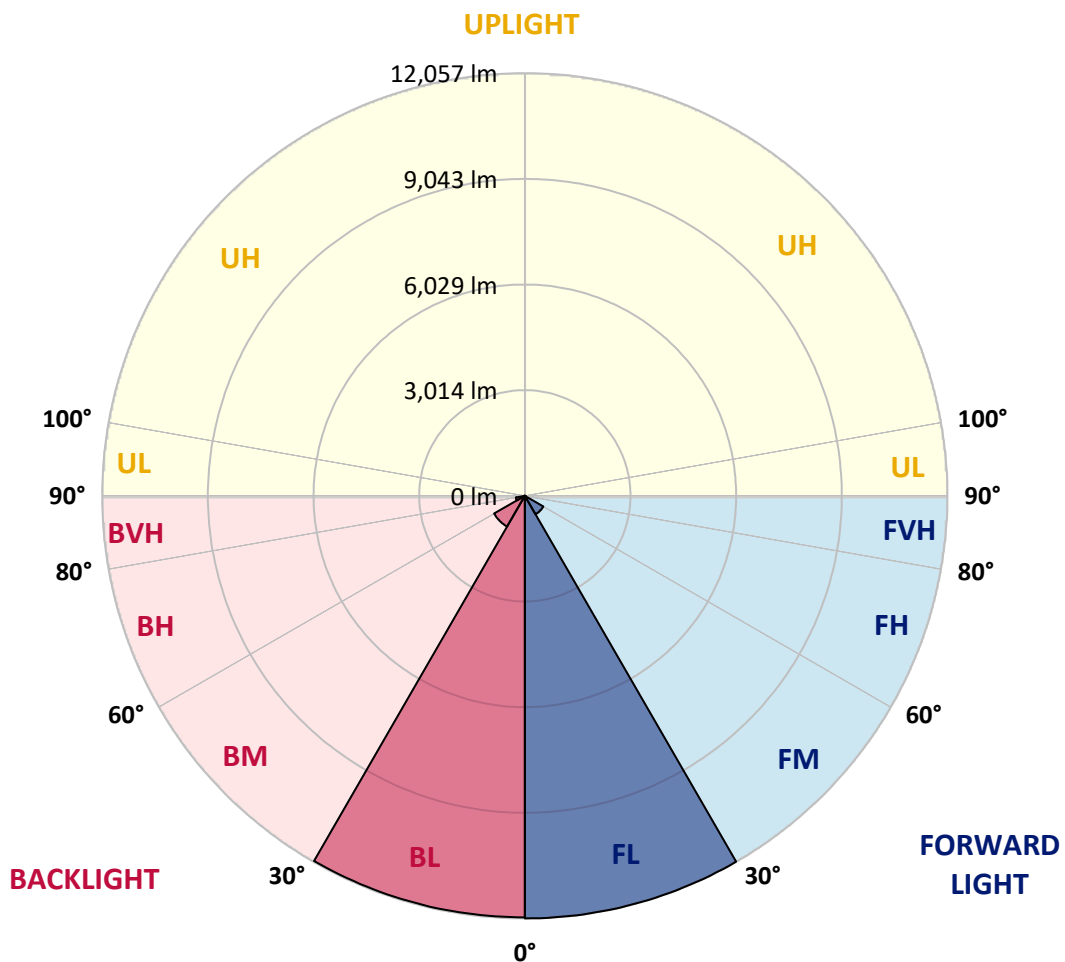


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12057.1	46.3			
FM (30°-60°)	608.4	2.3			
FH (60°-80°)	28.6	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	12028.6	46.2	B5		
BM (30°-60°)	1012.4	3.9	B2/2500		
BH (60°-80°)	261.4	1.0	B1/500		G0/660
BVH (80°-90°)	31.8	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°	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8
1°	255505.5	254725.7	252712.5	254144.4	255403.4	255037.6	255012.1	254876.0	254686.0	256177.5
2°	245291.9	244787.2	241809.9	243037.7	244826.9	243522.6	244339.2	243621.8	243636.0	245416.7
3°	228074.7	228349.7	223600.2	225831.8	228318.5	225156.9	226138.0	227981.1	226050.1	225468.8
4°	205696.8	203309.3	200714.8	202983.2	203626.9	201786.6	203595.7	205852.7	203170.3	203289.4
5°	180148.8	178385.1	175314.2	176715.0	175118.6	175699.9	178410.6	179340.7	177469.2	175112.9
6°	153880.6	152627.3	148788.0	150806.9	150239.8	149910.9	153333.3	150497.8	151518.6	150092.3
7°	127998.0	125655.9	123770.2	125704.1	125828.8	124839.2	129282.5	128766.4	126909.2	126478.2
8°	106048.3	103711.8	102115.4	103555.9	104497.2	102943.4	105033.2	106405.6	104953.8	105084.2
9°	85533.3	85122.2	82902.0	84784.7	85808.4	84143.9	86457.7	86953.9	85595.7	86256.4
10°	70230.0	69750.8	67978.6	68741.4	70437.0	68452.2	70672.4	70834.0	69750.8	70059.9
12.5°	43400.4	43207.6	43159.4	43270.0	43247.3	43598.9	44166.0	43519.5	43434.4	42365.4
15°	28051.8	28338.1	28043.2	28610.4	28692.6	29024.3	28678.4	28156.7	27161.4	26668.0
17.5°	17506.5	17872.3	18377.0	19207.8	20038.6	20135.0	19675.6	19063.2	18581.1	18053.7
20°	10071.8	10250.4	10173.8	11169.1	13318.4	13902.5	13309.9	12666.2	12085.0	11551.9
22.5°	6258.0	6192.8	6311.9	6646.4	7346.8	9153.0	8668.2	8024.5	7602.0	7162.5
25°	3836.5	3907.3	3862.0	4046.3	4361.0	5126.6	5237.2	4959.3	4743.8	4517.0
27.5°	2469.7	2469.7	2489.6	2591.7	2807.2	2781.6	3371.4	3155.9	3039.7	2929.1
30°	1715.5	1721.2	1721.2	1780.7	1828.9	1743.8	1897.0	2174.8	2121.0	2035.9
32.5°	1273.1	1290.2	1304.3	1335.5	1295.8	1205.1	1242.0	1565.2	1534.0	1502.8
35°	969.7	983.9	1018.0	1035.0	978.3	921.5	887.5	1151.2	1165.4	1156.9
37.5°	706.0	714.5	776.9	842.1	776.9	725.9	706.0	884.7	952.7	944.2
40°	541.6	544.4	555.8	629.5	629.5	589.8	595.5	660.7	779.8	779.8
42.5°	465.0	465.0	476.4	465.0	467.9	510.4	524.6	533.1	660.7	660.7
45°	402.6	402.6	408.3	380.0	351.6	439.5	450.8	453.7	555.8	569.9
47.5°	337.4	337.4	348.8	311.9	297.7	348.8	380.0	388.5	479.2	490.5
50°	249.5	252.4	286.4	255.2	263.7	269.4	328.9	334.6	405.5	431.0
52.5°	167.3	167.3	173.0	198.5	229.7	221.2	266.5	286.4	323.2	357.3
55°	136.1	136.1	133.3	127.6	170.1	184.3	195.7	238.2	263.7	306.2
57.5°	93.6	99.2	90.7	104.9	110.6	138.9	147.4	187.1	201.3	258.0
60°	11.3	14.2	19.8	76.6	73.7	93.6	110.6	147.4	164.5	198.5
62.5°	2.8	2.8	5.7	14.2	51.0	62.4	87.9	102.1	119.1	153.1
65°	0.0	0.0	2.8	5.7	11.3	34.0	45.4	59.5	85.1	107.7
67.5°	0.0	0.0	2.8	5.7	5.7	14.2	22.7	36.9	45.4	79.4
70°	0.0	0.0	2.8	5.7	5.7	11.3	14.2	17.0	31.2	42.5
72.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	14.2	14.2	28.4
75°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	14.2	11.3	11.3
77.5°	0.0	0.0	2.8	5.7	11.3	14.2	17.0	14.2	8.5	8.5
80°	0.0	0.0	2.8	8.5	14.2	19.8	22.7	17.0	8.5	5.7
82.5°	0.0	0.0	5.7	11.3	17.0	22.7	31.2	25.5	11.3	5.7
85°	0.0	0.0	2.8	8.5	17.0	22.7	45.4	31.2	14.2	2.8
87.5°	0.0	0.0	0.0	2.8	2.8	5.7	17.0	11.3	5.7	2.8
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°
258601.8	0°	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8	258601.8
254456.3	1°	256234.2	256412.8	255828.7	256733.2	256415.7	254555.6	253940.3	253211.5
244370.4	2°	243621.8	244532.0	244577.4	245581.2	245567.0	243397.8	242725.8	243964.9
226648.4	3°	225962.2	227022.7	226067.1	227850.7	227314.8	224683.4	224000.0	225406.5
204230.8	4°	203621.2	203419.9	203091.0	202075.8	203326.3	201531.4	200178.9	202087.2
178237.7	5°	177880.4	177432.4	176791.5	176491.0	177421.0	176272.6	173491.0	176278.3
152672.7	6°	152859.8	150931.6	150838.1	150670.8	150764.4	147548.9	147741.7	149817.3
124995.2	7°	126316.5	126671.0	125947.9	127107.6	126223.0	124045.3	123206.0	125392.2
105657.0	8°	104919.7	104471.7	103918.8	105651.3	104117.3	102688.2	101709.9	103436.8
86364.1	9°	86202.5	85428.4	84867.0	84779.1	85017.3	82334.9	82879.3	84186.5
70230.0	10°	70255.6	68985.3	69294.3	69376.6	69115.7	67357.7	67374.7	67825.5
43074.3	12.5°	42921.2	42297.4	42453.3	42538.4	43068.6	42450.5	41577.2	40947.7
27158.6	15°	26977.1	26529.1	27445.0	28060.3	27935.5	27385.4	26974.3	26404.3
18053.7	17.5°	17886.4	18473.4	18476.2	19037.7	19094.4	18544.3	18226.7	17713.5
11741.9	20°	11699.3	11943.2	12450.7	12847.7	13077.4	12657.7	12277.8	11926.2
7321.3	22.5°	7321.3	7746.6	8064.2	8580.3	8790.1	8483.9	8214.5	7928.1
4570.9	25°	4494.3	4797.7	5061.4	5509.4	5795.8	5648.3	5401.7	5200.3
2951.8	27.5°	2997.1	3124.7	3255.2	3564.2	3862.0	3779.7	3680.5	3558.6
2081.3	30°	2112.5	2123.8	2262.7	2435.7	2634.2	2685.2	2639.9	2577.5
1528.3	32.5°	1556.7	1602.1	1667.3	1775.0	1908.3	2030.2	2007.5	1979.2
1168.2	35°	1202.3	1270.3	1324.2	1406.4	1477.3	1593.6	1613.4	1604.9
961.2	37.5°	981.1	1040.6	1094.5	1142.7	1202.3	1281.7	1344.0	1346.9
793.9	40°	813.8	867.7	938.6	975.4	1018.0	1077.5	1154.1	1159.7
672.0	42.5°	686.2	737.2	808.1	853.5	884.7	941.4	1018.0	1029.3
575.6	45°	589.8	621.0	694.7	748.6	779.8	816.6	898.9	910.2
496.2	47.5°	513.2	544.4	589.8	666.3	694.7	728.7	793.9	813.8
439.5	50°	450.8	482.0	521.7	589.8	632.3	660.7	714.5	742.9
382.8	52.5°	399.8	431.0	473.5	527.4	575.6	601.1	652.2	689.0
311.9	55°	334.6	388.5	419.7	467.9	533.1	555.8	595.5	643.7
272.2	57.5°	292.1	337.4	382.8	422.5	487.7	516.1	555.8	601.1
215.5	60°	246.7	289.2	343.1	377.1	439.5	476.4	518.9	561.4
164.5	62.5°	195.7	252.4	289.2	337.4	397.0	445.2	479.2	521.7
127.6	65°	144.6	207.0	249.5	300.6	357.3	408.3	436.7	482.0
90.7	67.5°	104.9	161.6	212.7	260.9	314.7	365.8	394.1	433.8
56.7	70°	82.2	119.1	175.8	218.3	275.0	317.6	348.8	374.3
36.9	72.5°	48.2	90.7	141.8	190.0	241.0	269.4	292.1	314.7
17.0	75°	31.2	70.9	116.3	158.8	195.7	221.2	241.0	260.9
8.5	77.5°	19.8	51.0	93.6	133.3	150.3	181.5	198.5	209.8
5.7	80°	11.3	39.7	82.2	107.7	121.9	141.8	158.8	173.0
5.7	82.5°	8.5	34.0	68.1	90.7	90.7	113.4	121.9	121.9
2.8	85°	5.7	28.4	53.9	85.1	68.1	85.1	79.4	79.4
2.8	87.5°	5.7	19.8	25.5	36.9	31.2	36.9	36.9	42.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
258601.8
250325.0
238716.4
219159.8
195179.9
168934.3
143800.3
119446.1
98505.8
80103.3
64757.5
40564.9
26112.3
17585.9
11804.3
7775.0
5084.1
3487.7
2535.0
1956.5
1576.5
1327.0
1151.2
1020.8
907.4
816.6
745.7
689.0
646.5
604.0
572.8
541.6
490.5
436.7
382.8
320.4
260.9
204.2
156.0
113.4
76.6
42.5
0.0

(END OF REPORT)