

CORNER CUBE 2
C2 = (-26.30, 179.93, -285.02)
N2 = .867J - .498K

CORNER CUBE 1
C1 = (177.60, 13.88, -269.31)
N1 = .865I - .502K

CORNER CUBE 3
C3 = (-177.87, -14.03, -269.19)
N3 = -.864I - .503K

CORNER CUBE 4
C4 = (-24.50, -168.10, -267.26)
N4 = -.860J - .510K

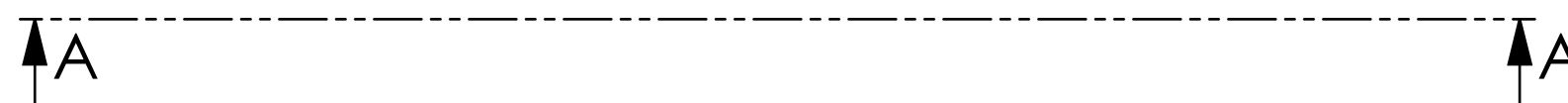
CORNER CUBE 5
C5 = (27.45, 12.78, 311.92)
N5 = .786I - .618J

CORNER CUBE 6
C6 = (-18.25, -43.90, 311.60)
N6 = -.617J + .786K

CORNER CUBE 7
C7 = (-29.99, 12.78, 311.92)
N7 = -.787I - .617J

NOTE:

- The Origin lies off the body of the CubeSat in-line with the end of the rails. The X-Axis and Y-Axis are centered in the CubeSat.
- The Center of Mass is located at coordinates (.46, -.03, 137.46) from the Origin.
- "C" = Coordinates [millimeters]
- "N" = Unit Vector Normal to Corner Cube faces
- Trac Booms and Solar Sail not shown
- Last Updated: 9/2/2015
- Drawing By: S. Wong



ECLIPTIC ENTERPRISES CORP.
398 W. Washington Blvd., # 100
Pasadena, CA 91103

SIZE D	CAGE CODE 1UHJ9	REV A
SCALE 1:2		SHEET 1 OF 2

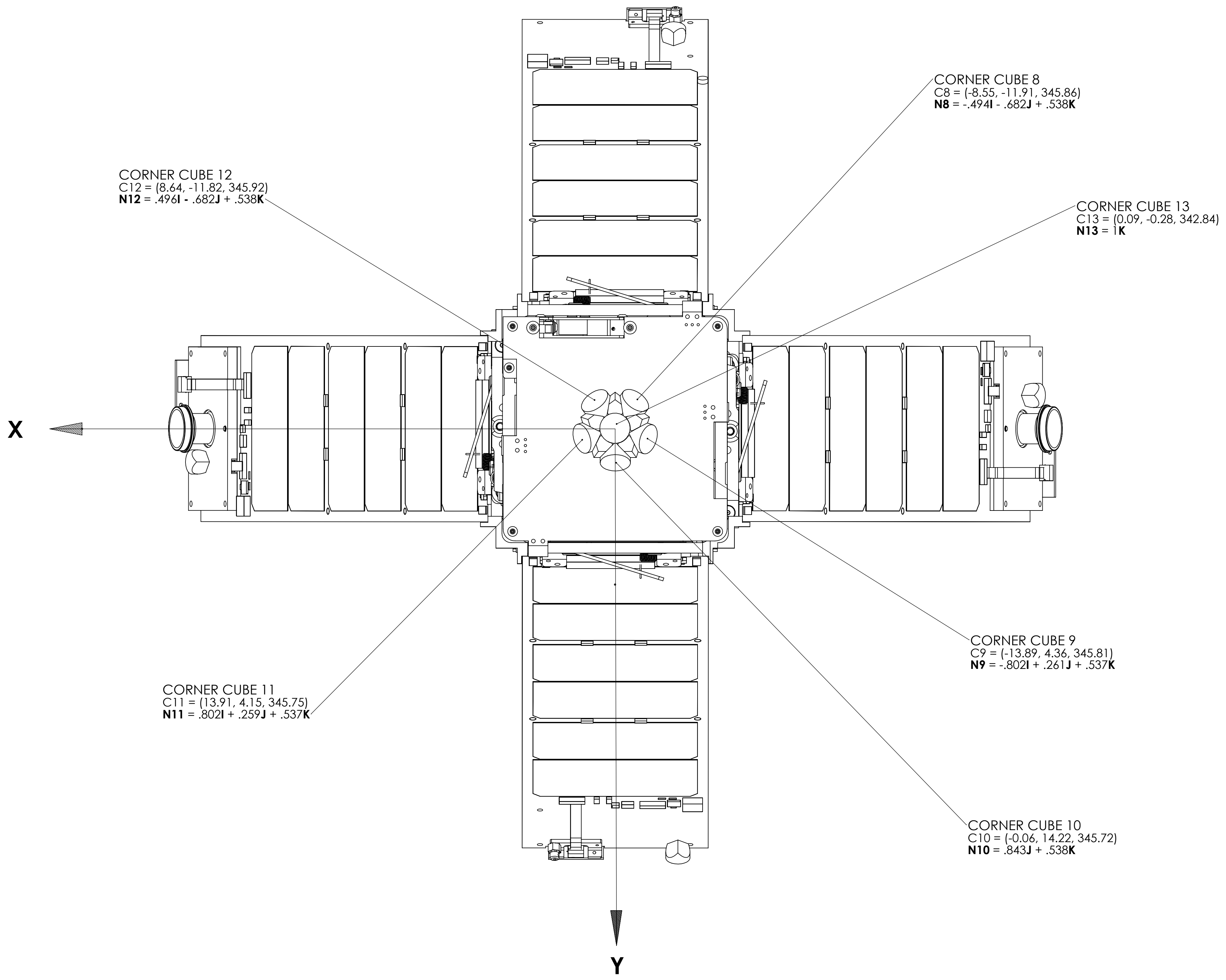
LightSail-B
Corner Cube Locations - Deployed Configuration

D
C
B
A

D
C
B
A

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1



SECTION A-A
SCALE 1:1

		ECLIPTIC ENTERPRISES CORP. 398 W. Washington Blvd., # 100 Pasadena, CA 91103	
SIZE D	CAGE CODE 1UHJ9	LightSail-B Corner Cube Locations - Deployed Configuration	REV A
SCALE 1:1	UNCLASSIFIED	SHEET 2 OF 2	REV 5/07

NOTES:

1. ALLOWABLE OPTICAL MATERIAL:

SCHOTT: N-BK7 517/642
GRADE A FINE ANNEALED

2. INCIDENT AND REFLECTED BEAMS SHALL BE PARALLEL TO WITHIN 5 ARCSEC

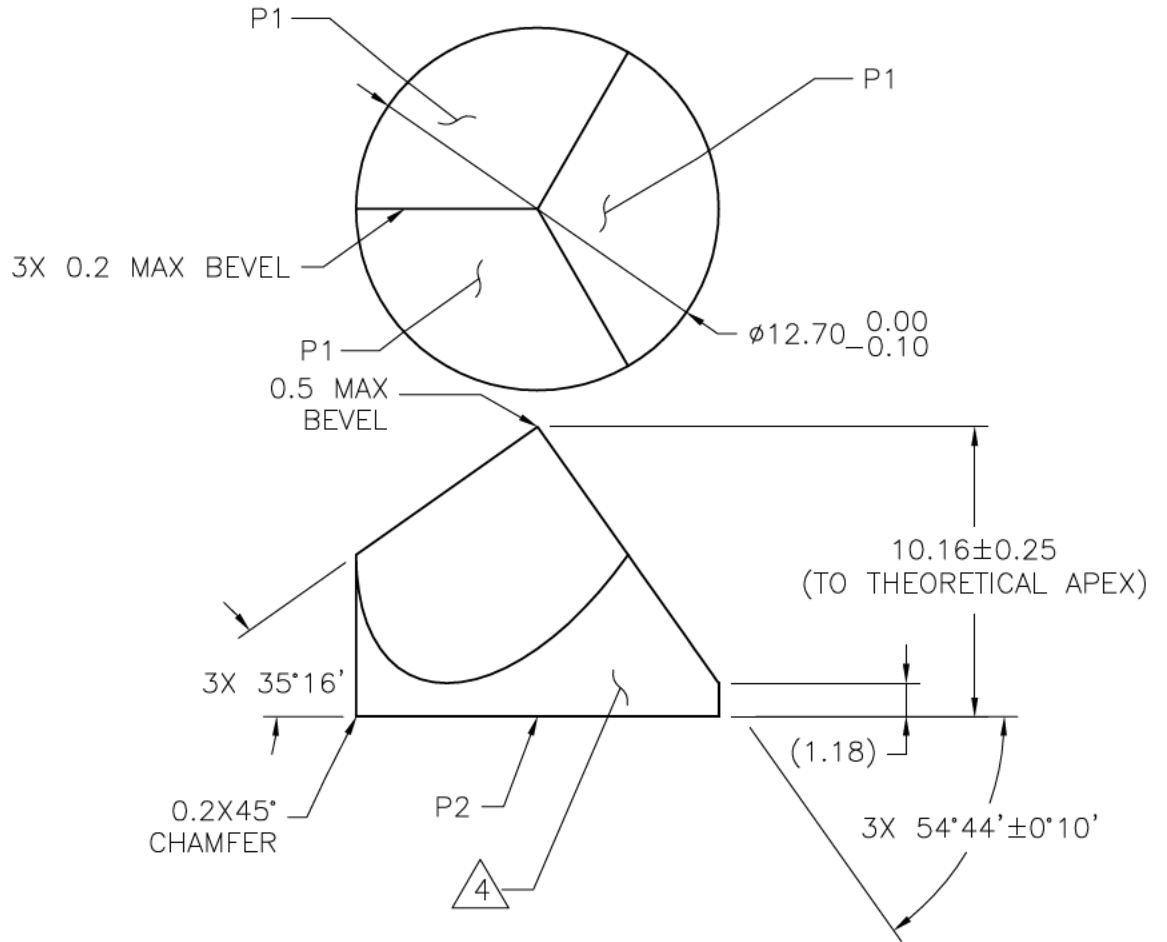
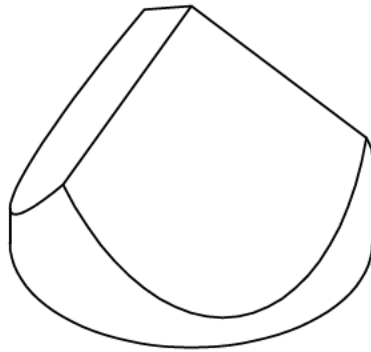
3. COATING (APPLY ACROSS CLEAR APERTURE):

P1: SILVER WITH INCONEL & BLACK PAINT
P2: BBAR MULTILAYER FOR R(AVE)<0.4% @ 425-675NM

4.  EDGE: FINE GROUND

5. POWER, IRREGULARITY, SURFACE QUALITY, AND COATING SPECIFICATIONS APPLY ACROSS CLEAR APERTURE.

6. CHIPS OUTSIDE OF CLEAR APERTURE: < 0.5MM



SURFACE:	P1 & P2
SHAPE:	PLANO
RADIUS:	∞
TESTPLATE TOL:	N/A
SURFACE QUALITY:	60 - 40
CLEAR APERTURE:	90% OF SURFACE
POWER AT 632.8nm:	0.25 RING
IRREGULARITY AT 632.8nm:	0.25 RING
BEVEL MIN FACE:	
BEVEL MAX FACE:	

NEXT HIGHER ASSY:	NONE
EFL (AT 587.6nm):	
BFL (AT 587.6nm):	
ALL DIMENSIONS:	mm

EO[®] Edmund Optics

TITLE: $\phi 12.7$ TECHSPEC CORNER CUBE, CTD.

DWG NO: 48606

PRESCRIPTION:

SCALE: NONE | SHEET 1 OF 1 | SHEET SIZE: A | CAD SYS: MDT 2004