

PMT Coordinates

PMT diameter 26 mm
 Gap between PMTs 2.2 mm

Hexagon diameter 138.80 mm
 (PMT wall-to-wall)

Hex corner distance 142.82 mm
 h_hex= 61.844
 side-side distance 123.69

x_max= 56.4
 delta-s= 7.5056

x_1 56.4
 x_2 42.3
 x_3 28.2
 x_4 14.1

y_1 61.844
 y_2 48.844
 y_3 24.422

Outer Ring**Inner Ring**

	x	y	x	y
1	0.00	48.84	14.10	24.42
2	28.20	48.84	28.20	0.00
3	42.30	24.42	14.10	-24.42
4	56.40	0.00	-14.10	-24.42
5	42.30	-24.42	-28.20	0.00
6	28.20	-48.84	-14.10	24.42
7	0.00	-48.84		
8	-28.20	-48.84		
9	-42.30	-24.42		
10	-56.40	0.00		
11	-42.30	24.42		
12	-28.20	48.84		

Gas Flow Holes

maximum diameter 6.5626

delta_y= 8.1406

d= 28.2
 x1= 24.422
 x3= 8.1406

upper half**lower half**

x	y	x	y
-56.40	16.28	-56.40	-16.28
-42.30	40.70	-42.30	-40.70
-42.30	8.14	-42.30	-8.14
-28.20	16.28	-28.20	-16.28
-28.20	32.56	-28.20	-32.56
-14.10	8.14	-14.10	-8.14
-14.10	40.70	-14.10	-40.70
-14.10	56.98	-14.10	-56.98
0.00	16.28	0.00	-16.28
0.00	32.56	0.00	-32.56
14.10	56.98	14.10	-56.98
14.10	40.70	14.10	-40.70
14.10	8.14	14.10	-8.14
28.20	32.56	28.20	-32.56
28.20	16.28	28.20	-16.28
42.30	8.14	42.30	-8.14
42.30	40.70	42.30	-40.70
56.40	16.28	56.40	-16.28

Center

x	y
0.00	0.00